



Web Services

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JobWatch Web Services

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1. Introduction

The below URL base is to be used for **all** web-services calls: <https://webservice.bigchange.com/v01/services.ashx?parameters>

1.1 Required Parameters:

Name	Type	Description	Note
Action	String	What do you want to do e.g. ContactSave, JobSave etc. c.f. below	

1.2 Optional parameter:

Name	Type	Description	Note
Format	String	Format of the data returned. Available formats: <ul style="list-style-type: none">JSONXMLCSV	The default is JSON CSV format will return a csv formatted file instead of the standard service response.

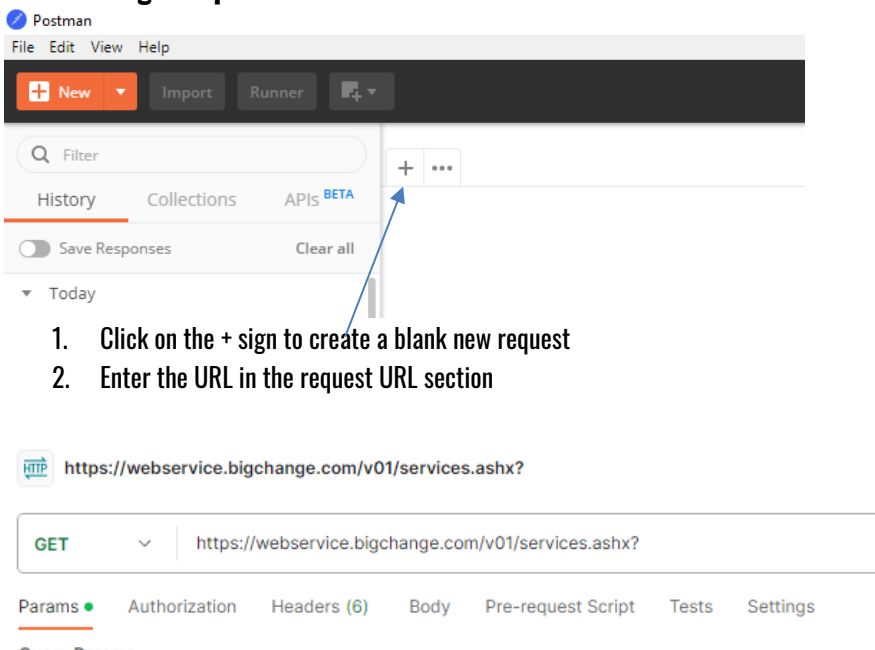
 Please note: don't forget to URL encode your parameters when required.

You may also sometimes need to access the alpha environment to develop webservices that have been created but have not yet been published in the live site. The URL for this is <https://alpha.webservice.bigchange.com>

1.3 How to build the URL – using Postman

Postman (<https://www.getpostman.com>) is an API platform for building and using APIs. Using Postman or similar tools like SOAPUI) enables you to quickly build and test API calls

Building a request



1. Click on the + sign to create a blank new request
2. Enter the URL in the request URL section

3. Start adding the query parameters

Query Params	
KEY	VALUE
<input checked="" type="checkbox"/> action	ContactList
<input checked="" type="checkbox"/> term	Traction

- Send the request
- If successful and output in the below section should display the results.

Body Cookies Headers (8) Test Results

Pretty Raw Preview Visualize BETA JSON

```

1  {
2    "Code": 0,
3    "Result": [
4      {
5        "label": "1. IT Traction 2",
6        "id": 6811529
7      },
8      {
9        "label": "IT Traction ",
10       "id": 6872269
11     }
12   ]
13 }

```

- If unsuccessful, a message will be provided with the results. See section 1.5 returned data.

Body Cookies Headers (8) Test Results

Pretty Raw Preview Visualize BETA JSON

```

1  {
2    "Code": 1,
3    "Result": "Wrong email or password"
4  }

```

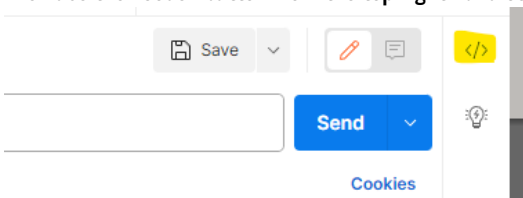
- Adding the format can be done by adding a parameter to the query or by manually changing the option from in the body.

1.4 How to build the URL – using a simple code example

Postman provides example code snippets which by and large will work with very little modification.

First, create the API call as described in the previous section.

Then use the “code” button from the top right hand corner of the Postman interface to show the code snippet



You can use the dropdown to select your preferred programming language.

C# - RestSharp ▾



```
1 var options = new RestClientOptions("https://webservice.bigchange.com")
2 {
3     MaxTimeout = -1,
4 };
5 var client = new RestClient(options);
6 var request = new RestRequest("/v01/services.ashx?action=ContactList", Method.Get);
7 request.AddHeader("Key", "Your-Key");
8 request.AddHeader("Authorization", "Basic {YourCredentials as Base64 string}");
9 RestResponse response = await client.ExecuteAsync(request);
10 Console.WriteLine(response.Content);
```

It is worth noting that there are plenty of other examples that can be found on Google or Stack Overflow. (<https://stackoverflow.com/questions>).

1.5 Returned data

Most of the time, unless you're using an action to retrieve data, the object returned will contains 2 properties: Code and Result.

Code will be one of the following:

- 0: Everything is Ok
- 1: Wrong credentials
- 2: Client error (Result will give a brief description of what you've done wrong)
- 3: Server error

If the code is 3, something unexpected happened on the server. A log will be raised and BigChange will automatically be alerted of the issue. You could potentially try the call again after a few minutes.

Example of data returned

<https://webservice.bigchange.com/v01/services.ashx?action=test>

JSON:

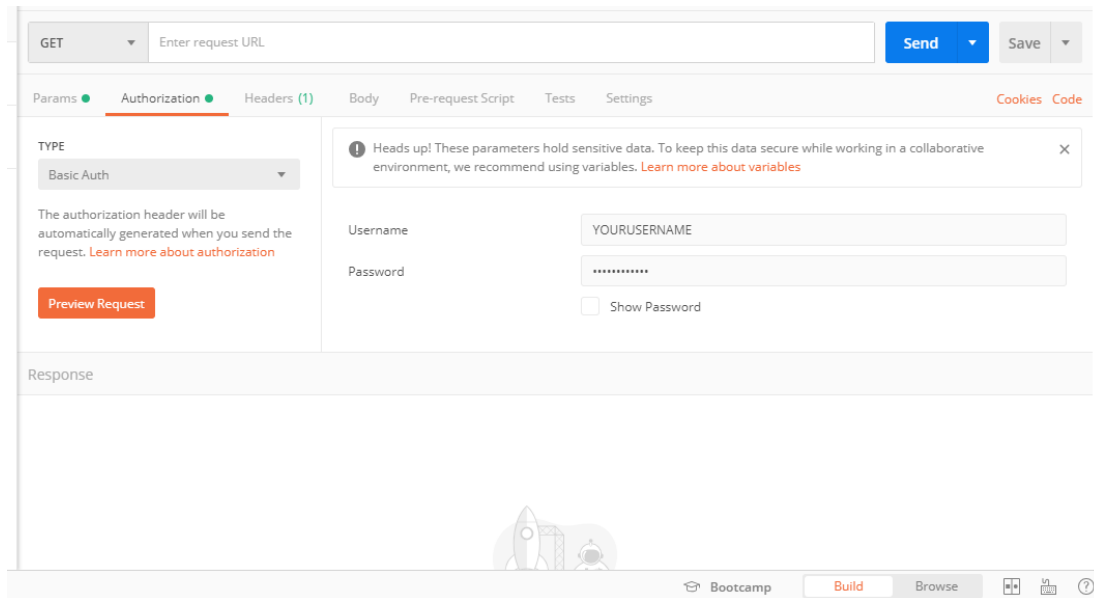
```
{
  Code: 2,
  Result: "Missing parameters"
}
```

XML:

```
<ServiceResult>
  <Code>2</Code>
  <Result>Missing parameters</Result>
</ServiceResult>
```

1.6 Basic Authentication

The JobWatch API uses Basic authentication which required the sending a verified username and password as part of your request.



As part of this authentication process, you must all provide your API company “key” as a HTTP Header parameter

- In Postman, go to the ‘request Authorization’ tab and select Basic Auth from the Type dropdown list.
- Enter your API login details in the Username and Password fields—for additional security you can store these in variables.
- Use the “headers” tab to add an entry for your company “key” - note this parameter is case sensitive.
- Click Preview Request to see how Postman will append your basic auth details to the request. In the request Headers tab, you will see a temporary header has been added. This contains a key; which postman will use to authenticcate your web service.

2. Web Service Listing Service

2.1. List Web Service Methods (ListMethods)

Lists the name and type (GET/SET) of all BigChange web service methods.

2.1.1. Required Parameters

Name	Type	Description	Note
Action	String	listmethods	

2.2. List Web Service Method Parameters (ListParams)

Lists the parameter details (Name, Type e.g. Int, Mandatory, Friendly Name) of specified web service methods.

2.2.1. Required Parameters

Name	Type	Description	Note
Action	String	listparams	
v2	String	If set to "1", version 2 output will be returned with improved property names	

2.2.2. Optional Parameters:

Name	Type	Description	Note
methodName	String	Name of the web service method to provide parameter details for	If NULL or an empty String is provided, and the v2 parameter (below) is set to "1", details of ALL web service method will be returned

3. Contact service

3.1. Adding or editing a contact (ContactSave)

3.1.1. Required Parameters

Name	Type	Description	Note
Action	String	ContactSave	
contactName	String(50)	Contact name	

 Please note, at minimum the parameters “Street”, or the coordinates (“Lat” & “Lng”) are required.

3.1.2. Optional Parameters:

Name	Type	Description	Note
contactGroup	String(50)	Name of the contact group	If the group doesn't already exist it will be created automatically
contactParentReference	String(40)	Reference you use in your system to identify contact's parent	
contactParentId	int	Internal Jobwatch ContactParentID	Returned from various contact webservices
contactReference	String(40)	Key you use in your system to identify the contact	
contactId	Int	Internal jobwatch contact reference	Returned from various contact webservices
contactStreet	String(100)	Address information	If you have your address information in one whole String you could only specify the parameter “Street”
contactPostcode	String(10)	Postcode	
contactTown	String(100)	Town	
contactCountry	String(50)	Country	
contactLat	Double	Latitude	
contactLng	Double	Longitude	
contactRadiusMeter	Int	Radius in meter	
ContactPerson	String(30)	Person you are in touch with at the contact	
ContactPhone	String(30)	Phone number of the person working at that contact	Must be in International format. No space E.g. +447954012012 Please ensure you encode the Phone Number.
ContactEmail	String(100)	Email of that person	
ContactExtra	String(255)	Any extra bit of info you want to save	
ContactReplaceSameRef	Int	If =1, a contact already in our database with the specified reference will be updated with the new info	1 or 0. Default 0
cust_customFieldName	String	Additional custom fields created for each contact group	Replace customFieldName with the name of the custom field as it appears on the contact details page. Multiple custom field parameters may be added to the request.
ContactFirstName	String	First name of the contact	


ContactLastName	String	Last name of the contact	
ContactAccountReference	String	The financial account reference	
ContactAccountType	Int		
ContactExtraUpdate	Int	Update contact's extra info	
CreditLimit	String	Contact's credit limit	
CreditLimitCurrency	String	Currency of the credit limit	
ContactExtraDelay2Pay	String	An extra parameter for Delay2Pay	
ContactOnStop	int	Pass the relevant integer value to set the resultant contacts on stop status	ContactOnStop values 0 = None , 1 = OnStop , 2 = Credit Limit On Stop
ContactOnStopReason	String	Contact On Stop Reason	Sets the ContactOnStop Reason
ContactWhat3Words	String	Set location using What3Words	Will over-write any polygon data, and replace with a radius (default or supplied)
ContactPolygonUpdate	Bool	Set to true updates the polygon based on lat/lng coordinates	

 The contactGroup parameter must be supplied if custom fields are included in the request.

3.2. Searching Contacts (ContactList)

3.2.1. Required Parameters

Name	Type	Description	Note
action	String	ContactList	
term	String	The search term used to find contacts Minimum length 3 characters	Equivalent to a wildcard search *[term]* across all the contact text fields (name, street, town, postcode etc.)

 Please note: to achieve best result do not make this call with less than 3 characters on the search term and consider the number of web service calls you will make when implementing this feature in auto-complete scenarios.

3.2.2. Optional Parameters:

Name	Type	Description	Note
postcode	Int	Return the postcode as a part of the contact name	Value of 1 includes the postcode. Value of 0 excludes the postcode.

3.3. Retrieve Contacts by Group Paged (ContactListGroupPaged)

Allows you to retrieve large numbers of contact records by specifying the number of records returned in each page

3.3.1. Required Parameters

Name	Type	Description	Note
action	String	ContactListGroupPaged	

groupid	Int		
page	Int		starts at 0
pagesize	Int		minimum 1, maximum 5000

3.4. Retrieve All Contact Groups (ContactGroup)

Allows you to retrieve all the contact groups from your site in a list

3.4.1. Required Parameters

Name	Type	Description	Note
action	String	ContactGroups	


3.5. Retrieving Contact Details (ContactDetail)

3.5.1. Required Parameters

Name	Type	Description	Note
action	String	ContactDetail	

3.5.2. Optional Parameters:

Name	Type	Description	Note
contactId	Int	The JobWatch contact Id	Same as supplied by the ContactList query above
contactRef	String	Customer supplied contact reference	Supplied by the customer when a contact is created or entered on the contact details on the web.
includeDeleted	Bool	Include deleted contacts in the search if set to 1	If omitted defaults to false (0)
includeDefaults	Bool	Include custom field default value if no updated value on the contact, if set to 1	If omitted defaults to false (0)

 Please note any custom fields defined for the contact group will be returned with the format "cust_*fieldname*" where *fieldname* is the caption used by the custom field.

3.6. Updating Contact Group (ContactGroupUpdate)

This webservice allows you to update the contact groups on your site by adding contacts to the group or adding custom fields.

3.6.1. Required Parameters

Name	Type	Description	Note
action	String	ContactGroupUpdate	

contactId	Int	The JobWatch contact Id	Same as supplied by the ContactList query above
contactRef	String	Customer supplied contact reference	Supplied by the customer when a contact is created or entered on the contact details on the web.
contactGroup	String		Contact group must already exist

3.6.2. Optional Parameters:

Name	Type	Description	Note
CopyCustomFields	String		0/false or 1/true

3.7. Deleting Contact Group (ContactGroupDelete)

This webservice allows you to delete the contact groups on your site by id or name.

3.7.1. Required Parameters

Name	Type	Description	Note
Action	String	ContactGroupDelete	
contactGroupId	Int	The JobWatch contact group Id	Same as supplied by the ContactGroups query above
contactGroupName	String	Customer supplied contact group name reference	Supplied by the customer when a contact group is created or entered in the contact group details on the web. Must be supplied if contactGroupId value isn't available.

3.8. Deleting Contacts (ContactDelete)

This webservice allows you to delete the contacts on your site id or name

3.8.1. Required Parameters

Name	Type	Description	Note
Action	String	contactdelete	

3.8.2. Optional Parameters:

Name	Type	Description	Note
contactId	Int	The JobWatch contact Id	Same as supplied by the ContactList query above
contactRef	String	Customer supplied contact reference	Supplied by the customer when a contact is created or entered on the contact details on the web.
			Can be contactId and/or contactRef



Note: the contact will not be physically deleted from the database as it may still be referenced by other entities. It is instead no longer available from the user interface or to the web services and only available where included in an items history.

3.9. Retrieving Contact Notes (ContactNotes)

This webservice allows you to retrieve the contact notes on your site by id or by reference.

3.9.1. Required Parameters

Name	Type	Description	Note
action	String	ContactNotes	
contactId	Int	The JobWatch contact Id	Same as supplied by the ContactList query above
contactRef	String	Customer supplied contact reference	Supplied by the customer when a contact is created or entered on the contact details on the web.

3.9.2. Optional Parameters:

Name	Type	Description	Note
flagHistory	String	Includes a list of the contact note flags recorded in the result if set to 1	Optional parameter, if omitted no flag history returned
IncludeCustomFields	Bool	returns the customfields for the contact if set to 1	Optional parameter, if omitted no custom fields return

3.10. Retrieving single contact note by Id or Reference (GetContactNote)

3.10.1. Required Parameters

Name	Type	Description	Note
action	String	GetContactNote	
ContactNoteId	Int	The JobWatch contact note Id	The Id of the contact note
ContactNoteRef	String	The JobWatch contact notes reference	The reference of the contact note

3.11. Retrieving Contact Notes Worksheets (NoteWorkSheets)

This webservice allows you to retrieve contact note worksheets using an id or reference

3.11.1. Required Parameters

Name	Type	Description	Note
action	String	noteworksheets	
NoteId	Int	The JobWatch contact note Id	
NoteRef	String	Customer supplied contact note reference	

3.12. Saving Contact Notes (ContactNoteSave)

3.12.1. Required Parameters

Name	Type	Description	Note
action	String	ContactNoteSave	

contactId	Int	The JobWatch contact Id	Same as supplied by the ContactList query above
contactRef	String	Customer supplied contact reference	Supplied by the customer when a contact is created or entered on the contact details on the web.
NoteTypeId	Int		

3.12.2. Optional Parameters:

Name	Type	Description	Note
cust_	String	Custom fields	
WorksheetId	String		
OwnerId	String		
Subject	String		
NoteText	String		
NoteCompletionText	String		
DueDate	datetime		
DaysToAdd	Int	If set adds number of days to DueDate	If no DueDate set and DaysToAdd sent the days to add will be added from current datetime
Reference	String	Specifies contact note reference	
ReferencePostfix	String	If set adds String to end of reference	

3.13. Delete Contact Note (ContactNoteDelete)

This webservice allows you to delete contact notes using a contact note id

3.13.1. Required Parameters

Name	Type	Description	Note
action	String	ContactNoteDelete	
contactNoteId	Int	The JobWatch contact note Id	

3.14. Retrieving Contact Note Types (ContactNoteTypeList)

This service returns a list of all note types available for the current user. Each entry will show Name and ID

3.14.1. Required Parameters

Name	Type	Description	Note
action	String	ContactNoteTypeList	
ErrorOnNoneFound	Bool	If you would like an error message where there are no contact note types	1 = do not show error 0 = show errors

3.15. Add Contact Person (ContactSavePerson)

3.15.1. Required Parameters

Name	Type	Description	Note
Action	String	contactsaveperson	Saves or updates person record for a contact
ContactId	Int	The JobWatch contact Id	either contact ID or Reference can be supplied
ContactRef	String	Customer supplied contact reference	As above
Email	String(100)		Contact Person Email

3.15.2. Optional Parameters:

Name	Type	Description	Note
UserId	String	ContactPerson UserId	Same as supplied by the ContactListPerson service below if passed the service will update an existing contactperson record
MainUser	Bool	ContactPerson Main User	If True sets the new or updated contactPerson as Main contact person
FirstName	String(50)		Contact Person First Name
LastName	String(50)		Contact Person Last Name
Title	String(20)		Contact Person Title
Position	String(40)		Contact Person Position
Department	String(40)		Contact Person Department
Phone	String(20)		Contact Person Phone
Landline	String(20)		Contact Person Landline

3.16. List Contact Person (ContactListPerson)

3.16.1. Required Parameters

Name	Type	Description	Note
Action	String	contactlistperson	Returns a list of contact persons recorded for a contact
ContactId	Int	The JobWatch contact Id	either contact ID or Reference can be supplied
ContactRef	String	Customer supplied contact reference	As above
DisplayMainUser	Bool	Adds additional field to output IsMainUser	Displays Yes or No depending on whether the user is a main user or not
FilterMainUser	Bool	Filters the output to return the MainUser only	Returns the main user only if set to true. If used with display mainuser, the isMainUser flag will show "Yes" to confirm that it is a main user.

3.17. Contact Delete Person (ContactDeletePerson)

This webservice allows you to delete contact persons using an id or reference

3.17.1. Required Parameters

Name	Type	Description	Note
------	------	-------------	------

Action	String	contactdeleteperson	Deletes a contact user based on the unique GUID
Userld	Int	The JobWatch user contact Id (GUID)	Enter the contact users GUID.

3.18. Add Contact Parent Person (contactparentlink)

This webservice links a contact parent to a contact. Both contacts must already exist to be able to use this webservice.

3.18.1. Required Parameters

Name	Type	Description	Note
Action	String	contactparentlink	
ContactId	Int	The JobWatch contact Id	
ContactParentId	Int	The JobWatch Parent Contact Id	
Overwriteifexists	Bool		If the contact already has a parent contact – setting this to true will override the original parent contact.

3.19. Get contact detail by postcode (ContactDetailByPostCode)

This webservice allows you to search your contacts by PostCode.

3.19.1. Required Parameters

Name	Type	Description	Note
Action	String	ContactDetailByPostCode	Searches for contacts based on postcode
contactPostCode	String	The JobWatch contact postcode	

3.19.2. Optional Parameters:

Name	Type	Description	Note
contactParentId	Int	The JobWatch Contact Parent Id	If you would like to only show contacts that match the postcode AND the contact parent, then you can use this parameter. Adding in the contact parent id, will only match the postcode that has this contact parent and this postcode
contactId	Int	The JobWatch Contact Id	If you would like to only show contacts that match the postcode AND the contact, then you can use this parameter. Adding in the contact id, will only match the postcode that has this contact and this postcode

3.20. Search contacts by phone (ContactsByPhone)

3.20.1. Required Parameters

Name	Type	Description	Note
Action	String	ContactsByPhone	

phonenumber	String	This parameter should be the phone number attached to the JobWatch contact that you'd like to search for	
includelandline	Bool	This parameter allows you to also search landline numbers attached to the JobWatch contact	

3.21. Search list of contacts by Email (ContactListByEmailAddress)

3.21.1. Required Parameters

Name	Type	Description	Note
Action	String	ContactListByEmailAddress	
EmailAddress	String	This parameter should be the email address attached to the JobWatch contact that you'd like to search for	

3.22. Search Contact by Email and ContactId or ContactReference (ContactByEmailAddress)

3.22.1. Required Parameters

Name	Type	Description	Note
Action	String	ContactByEmailAddress	
contactId	Int	Id of the JobWatch contact that you would like to search for	If the contactId parameter is empty, the contactReference must be populated
contactRef	String	Reference of the JobWatch contact that you would like to search for	
emailAddress	String	Email address of the JobWatch contact that you would like to search for	

3.22.2. Optional Parameters

Name	Type	Description	Note
IncludeCustomFields	Bool	When set to 'true' or '1' – any completed custom fields against the Contact Person will be included in the response	Available from Release 23.07 Sep 2023
IncludeFlags	Bool	When set to 'true' or '1' – any Flags against the Contact Person will be included in the response	Available from Release 23.07 Sep 2023

3.23. Financial Integration for saving contacts by the account reference (AccountContactSave)

This web service requires a Json file payload based on the fields below. The web service is used as part of the financial contact integration where the contactId is not known. The routine requires an account reference and type which is used to create/update contact records in JobWatch.

Additionally, users may wish to pass the financial information for credit limits, payments terms, account balance and account status. The account fields stored in CRM => Financials => Terms.

Important note: The account reference and type fields are only exposed when selecting a financial integration package which is located in My Account => Administration => Account Settings => Financial.

3.23.1. Required Parameters

Name	Type	Description	Note
Action	String	AccountContactSave	
ContactAccountReference	String		
ContactAccountType	Int	This relates to the type of account contact	<p>The value passed depends on the accounts package being integrated with.</p> <p>For example:</p> <p>If using Xero – you would pass a 1 to set the account type to Xero.</p> <p>If using Sage 50 – you would pass a 1 to set the account type to Sales Ledger and 2 to set the account type to Purchase Ledger.</p>

3.23.2. Optional Parameters

Name	Type	Description	Note
ContactName	String	The name of the contact record	
ContactStreet	String	The street of the contact record	
ContactPostcode	String	The postcode of the contact record	
ContactTown	String	The town of the contact record	
Country	String	The country of the contact record	
ContactFirstName	String	The primary contacts first name	
ContactLastName	String	The primary contacts last name	
ContactPhone	String	The primary contacts phone number	
ContactEmail	String	The primary contacts email address	
ContactReference	String	The contact reference on the general tab	If empty, the contacts reference is not updated
ContactAccountBalance	Double	The balance of the corresponding financial account	Visual field only – it has no impact on JobWatch.
ContactAccountStatus	Int	The status of the corresponding financial account	<p>Visual field only – it has no impact on JobWatch</p> <p>Status 0 = Live 2 = On Hold</p>
CreditLimit	Double	The credit limit of the account contact	
CreditLimitCurrency	String	The credit limits currency	
ContactExtraDelayToPay	Double	The default payment terms	

ContactExtraUpdate	Bool	Set to true to update the contact extra	This includes balance, credit limit, account reference, type
ContactGroup	String	The contacts contact group	

Example Payload

```
[{"ContactName": "ContactSupp", "ContactStreet": "21992b Montpellier Parade", "ContactPostCode": "HG1 2TJ", "ContactTown": "Harrogate", "ContactFirstName": "", "ContactLastName": "", "ContactPhone": "", "ContactEmail": "", "ContactReference": "SUPPCon1", "ContactAccountType": 2, "ContactExtraUpdate": 1, "CreditLimit": 1, "CreditLimitCurrency": "GBP", "ContactExtraDelay2Pay": 11, "ContactReplaceSameRef": true, "ContactGroup": "v26 Group 2", "ContactAccountReference": "SUPPCon1", "ContactAccountBalance": 642.08, "contactAccountStatus": 0}]
```


4. Job service

4.1. Adding or editing a job (JobSave)

This webservice allows you to add or edit a job using a job type

4.1.1. Required Parameters

Name	Type	Description	Note
Action	String	Jobsave	
JobType	String(100)	Type of the job. E.g. Collection, delivery etc...	This parameter is mandatory on a new job. It cannot be changed on an existing job due to dependency on worksheets and custom fields.

A Please note you will also need to add some parameters to define the contact where this new job happens. You can do this in 2 ways:

- Add all the required parameters described in “3.1 Adding or editing a contact”. A new contact will then be created with the job
- If the contact exists already in the BigChange database, just add a parameter “ContactReference” with the right reference of that contact. It will then be used for the new job.

4.1.2. Optional Parameters:

Name	Type	Description	Note
JobGroup	String(40)	Key you use to group a set of jobs together (e.g. an order number)	If the group is a part of a group job, the group job id will be returned in the response.
JobCategory	String(40)	Unallocated job category for the job	Will be created if it doesn't already exist
JobRef	String(40)	Key you use in your system to identify the job	
JobId	Int	Key used in JobWatch to identify the job	Returned when a job is created or updated
JobDescription	String(500)	Description of the job	
JobStart	datetime	Planned job start	Must be in format: yyyy-MM-dd HH:mm:ss The time zone has to be the local time configured for the user logging into the web service
jobDurationMinute	Int	Planned job duration in minute	Default value is specified under the admin section of the JobWatch website
resourceReference	String(15)	Reference of the resource scheduled for the job	Must match exactly the ref saved in the JobWatch system
resourceName	String(50)	Name of the resource scheduled for the job	Must match exactly the name saved in the JobWatch system

vehicleReference	String(15)	Reference of the vehicle scheduled for the job	Must match exactly the ref saved in the JobWatch system
vehicleRegistration	String(50)	Registration of the vehicle scheduled for the job	Must match exactly the reg saved in the JobWatch system
preserveSchedule	Bool	Used to preserve the job position (job start date and time, resource and vehicle).	Default=false
Cust_customFieldName	String(500)	Additional custom fields created for each job type.	Replace customFieldName with the name of the custom field as it appears on the job details page. Multiple custom field parameters may be added to the request.
ContactPersonId	String	Add a specific contact person to a job	To add a new contact person use the contactsaveperson service which will return a ContactPersonId. The contactlistperson will return all contactpersons for a specified contact
ParentContactPersonId	String	Add a specific contact person, at the parent contact, to a job	To add a new contact person at the parent contact, use the contactsaveperson service which will return a ContactPersonId. The contactlistperson will return all contactpersons for a specified contact
JobMustStartAfter	DateTime	Adds a Must Start After Constraint set to the UTC datetime value passed	Formats: Add by date and time yyyy-MM-ddTHH:mm:ss yyyy-MM-dd HH:mm:ss yyyy-MM-ddTHH:mm yyyy-MM-dd HH:mm Add for 'Today' at a specific time: HH:mm:ss HH:mm Prefix with 'T' to add for a Time only: THH:mm:ss THH:mm
JobMustStartBefore	DateTime	Adds a Must Start Before Constraint set to the UTC datetime value passed	See JobMustStartAfter (above) for available formats.
JobMustCompleteBefore	DateTime	Adds a Must Complete Before Constraint set to the UTC datetime value passed	See JobMustStartAfter (above) for available formats.
AlertWhenEnRoute	Bool	Allows a default contact alert to be added to job	when set to 1, will add a contact alert with default miles value (unless selected with next parameter) of 15.

AlertMiles	Int	Amount of miles to be assigned to the contact alert (see previous parameter)	Only used when "AlertWhenEnRoute" is set to 1.
contactId	Int	Jobwatch id of the contact	
contactReference	String	Jobwatch reference of the contact	
contactName	String		
contactFirstName	String		This field is used instead of contact name
contactLastName	String		This field is used instead of contact name
isMainContact	Bool	Sets whether the contact being changed is set to primary contact	The default is set to true
contactGroup	String		
contactParentReference	String		
contactStreet	String		
contactPostcode	String		
contactTown	String		
contactCountry	String		
contactLat	Double	Latitude coordinates	
contactLng	Double	Longitude coordinates	
contactRadiusMeter	Int		
ContactPerson	String		
ContactPhone	String		Please ensure you encode the Phone Number.
ContactEmail	String		
ContactExtra	String		
ContactWhat3Words	String	Set location using What3Words reference	If also supplied, ContactLat and ContactLng will take precedence
ContactReplaceSameRef	Bool	If =1, a contact already in our database with the specified reference will be updated with the new info	1 or 0. Default 0
jobPO	String		
jobStart	datetime		
returnjobref	Bool	Set to true if you'd like to receive the job ref in the response	
secondaryPersons	Int, String, String, String	Format the String like below. GUID1, Name1 , Email1, Phone1 : GUID2, Name2 , Email2, Phone2	GUID is the global identifier of the contact user. To retrieve this id or any other person information you may require, please use the ContactListPerson webservice.
retainSecondaryPersons	Bool	If True any existing secondary persons associated with the existing job will be retained	If not set or set to false, default behaviour will remove any existing secondary persons and replace with any valid secondary persons passed

			in secondaryPersons parameter above
SalesOpportunityId	Int	Id on Sales Opportunity to linked to this Job	When value is greater than zero and is a valid Sales Opportunity, the job will be linked to the identified Sales Opportunity. Invalid Id is simply ignored – it does not prevent the job from being created.
UpdateJobType	Bool	Set to true updates the job type where set	

A Please note a job will only be scheduled to a resource if a jobStart and either a resourceReference or a resourceName or vehicleReference or vehicleRegistration is specified

A Custom fields have the same name as the field added to the job type, prepended with “cust_”. Any number of custom fields can be specified for a job, if not found for the job type given they will be ignored.

4.2. Un-scheduling a job (JobUnschedule)

This webservice allows you to un-schedule a job using a job reference

4.2.1. Required Parameters

Name	Type	Description	Note
Action	String	jobunschedule	
JobReference	String	Valid reference of the job to be un-scheduled	

4.3. Cancelling a job (Jobcancel)

This webservice allows you to cancel or permanently delete a job using a reference or a job id

4.3.1. Required Parameters

Name	Type	Description	Note
Action	String	jobcancel	
JobReference	String	Valid reference of the job to be cancelled	
JobId	Int	Valid id of the job to be cancelled	Job Id takes precedence over Job Reference, if both parameters are supplied

4.3.2. Optional Parameters

Name	Type	Description	Note
cancelRecurringJobs	Bool	Allows you to cancel the reoccurring jobs	
cancelReason	String	Allows you to add a cancellation note	

keepJob	Bool	Allows you to permanently delete the job – unlike cancelling, this deletes the record that the job existed	The default for this parameter is true – setting this parameter to false will allow you to delete the job from your records
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4.4. Retrieving Jobs (Jobs)

See also [Retrieving jobs with more filter options below](#)

4.4.1. Required Parameters

Name	Type	Description	Note
Action	String	Jobs	
Start	Date	Date you want jobs data from	Must be in format: yyyy-MM-dd HH:mm:ss
End	Date	Date you want jobs data until	Must be in format: yyyy-MM-dd HH:mm:ss
Myjobs	Bool	Return only jobs for the current logged in user	Use 1 for true, 0 for false
Unallocated	Bool	Return unallocated jobs in the results	Default = true
Completed	Bool	Return completed jobs in the results	Default = true
OnlyCancelled	Bool	If Set service will only return cancelled jobs between Start & End dates	Default = false
StatusDate	Date	Minimum date of jobs current status Can be used to retrieve only jobs that have changed status since the date supplied.	Must be in format: yyyy-MM-dd HH:mm:ss Default = null (all)
useCreatedDate	Bool	When true, the creation date is used for the date filtering. When false, or not specified the job start/end date is used.	Default = false
IncludeAssistants	Bool	Include assistant detail for the Job	Optional parameter, if omitted assistants are not included
IncludeCustomFields	Bool	Include custom fields for the Job	Optional parameter, if omitted custom fields are not included



Please note:

- RealStart, RealEnd, RealDuration, PrntName, CustNote and ResNote are only returned if a job is completed
- The different statuses are: New, Scheduled, Unscheduled, Sent, Read, Accepted, Refused, On the way, Resource late, Started, Suspended, Completed, Completed with issues, Cancelled.

4.5. Retrieving Jobs in a Group (JobsByGroup)

This webservice allows you retrieve details of a single job group together with the details of all jobs associated with the targeted job group

4.5.1. Required Parameters

Name	Type	Description	Note
Action	String	JobsByGroup	
jobGroupld	Int		jobGroupld Id takes precedence over JobGroupRef, if both parameters are supplied
jobGroupRef	String		

IncludeJobAssistants	Bool	Include assistant detail for the Jobs within the group	Optional parameter, if omitted assistants are not included
IncludeJobCustomFields	Bool	Include custom fields for the Jobs within the group	Optional parameter, if omitted custom fields are not included
includejobrestrictions	Bool	Include restrictions for the Jobs within the group	Restrictions and constraints are the same Both options are include for legacy purposes
includeJobConstraints	Bool	Include constraints for the Jobs within the group	Restrictions and constraints are the same Both options are include for legacy purposes

4.6. Retrieving Jobs with more filter options – (Jobslist)

The jobslist webservice returns similar results to the jobs service above however it will accept more parameters to allow you to filter results more effectively. However, for efficiency the webservice requires Internal id's to be provided, Internal ID's required can be found by calling other services

4.6.1. Required Parameters

Name	Type	Description	Note
Action	String	Jobslist	
Start	Date	Date you want jobs data from	The format depends on the optional parameter "includetime" – format is yyyy-MM-dd HH:mm:ss
End	Date	Date you want jobs data until	The format depends on the optional parameter "includetime" – the format is yyyy-MM-dd HH:mm:ss

4.6.2. Optional Parameters

Name	Type	Description	Note
Format	String	Decides in which format to return the results	Options are json, xml and csv if non is passed default is Json
DateOptionId	Int	Decides which date options apply to the search (Default = Planned Date id = 0)	Date option id values can be retrieved from the Dateoptions service however values are provided below Planned: 0 Actual: 1 CreationDate: 2 DueDate: 3
Allocated	Bool	Return allocated jobs in the results	1 or 0 default is 0 (zero)
Unallocated	Bool	Return unallocated jobs in the results	1 or 0 default is 0 (zero)
Actioned	Bool	Return actioned jobs in the results	1 or 0 default is 0 (zero)
Unactioned	Bool	Return unactioned jobs in the results	1 or 0 default is 0 (zero)

Statusid	String	Allows multiple statuses to be included as filter in separated list Example '1 12 13' would return jobs at 'New', 'CompletedOk' and 'CompletedNOK' statuses	Requires pipe separated list of jobstatusid's (Job status id values can be retrieved from the JobStatuses service) If no filter is supplied jobs will be returned irrespective of their status
ClientStatusid	Int	Allows jobs to be filtered by a single client status	Job client status id values can be retrieved from the ClientStatuses service
TagId	String	Allows multiple tag Id's to be included as filter in separated list	Requires pipe separated list of Tag Id' (Tag id values can be retrieved from the Tags service)
JobTypeid	Int	Allows jobs to be filtered by a single job type	JobType id values can be retrieved from the Jobtypes service
jobcategoryid	Int	Allows jobs to be filtered by a single job category	Job Category id values can be retrieved from the jobcategories service
Contactid	Int	Allows jobs to be filtered by a single contact	Contact id values can be retrieved from the contactlist service
JobGroupid	Int	Allows jobs to be filtered by a single job group	
Search	String	Allows jobs to be filtered by the full text search facility	Filters in the same way the full text search filters on the JobWatch Website
Jobreference	String	Allows jobs to be filtered by a single jobreference	
PONumber	String	Allows jobs to be filtered by a single Po Number	
Resourceid	Int	Allows jobs to be filtered by a single Resourceid	Resource Id values can be retrieved from the Resources
ResourceGroupid	Int	Allows jobs to be filtered by a single Resource Group Id	Resource Group Id values can be retrieved from the ResourceGroups service
AssetId	Int	Allows jobs to be filtered by a single Asset Id	Asset id values can be retrieved from the assets service
AssetGroupid	Int	Allows jobs to be filtered by a single Asset Group Id	Asset Group Id values can be retrieved from the AssetGroups service
Page	Int	Used in conjunction with pagesize below. Allows you to control the page of records returned	Starts at 0
Includetime	Bool	Allows for the time element to be added when specifying the start and end dates.	Optional parameter, if omitted it assumes the date format entered is yyyy-MM-dd.
Excludejobtypeids	String	Allows jobs to be filtered by excluding JobTypeids	JobTypeids must be numerical and separated by a comma
ExcludeNullPlannedDates	Bool	Allows jobs to be excluded where the planned date is null	Optional parameter, if omitted jobs are shown where the planned date is null.
PageSize	Int	Allows you to specify the number of records returned on each call	
IncludeAssistants	Bool	Include assistant detail for the Job	Optional parameter, if omitted assistants are not included
IncludeCustomFields	Bool	Include custom fields for the Job	Optional parameter, if omitted custom fields are not included

IncludeRestrictions	Bool	Include any restrictions applied to the job	Optional parameter, if omitted job restrictions are not included
IncludeExtra	Bool	When set to true, additional	Optional parameter: defaults to false

4.7. Retrieve Jobs by Contact Paged (JobsListByContactPaged)

Allows you to retrieve large numbers of Jobs records by specifying the number of records returned in each page

4.7.1. Required Parameters

Name	Type	Description	Note
action	String	JobsListByContactPaged	
contactRef	String		
contactId	Int		used if contactRef isn't entered
start	Date	Date you want jobs data from	Must be in format: yyyy-MM-dd HH:mm:ss
end	Date	Date you want jobs data until	Must be in format: yyyy-MM-dd HH:mm:ss
jobStatus	String	Select one from: New, Scheduled, Unscheduled, Sent, Refused, OnTheWay, Started, Suspended, CompletedOk, CompletedNOK	
page	Int		starts at 0
pagesize	Int		minimum 1, maximum 5000

4.7.2. Optional Parameters

Name	Type	Description	Note
checkContactDescendants	Bool	When true, the descendants of the supplied contact will also be used to retrieve the jobs list	Set to 1 to activate, default is 0 (zero).

4.8. Retrieving a Single Job (Job)

This service returns the detail of a single Job using either the Job Id or Job Reference

4.8.1. Parameters

Name	Type	Description	Note
action	String	Job	
jobId	Int	Job Id	Job Id takes precedence over Job Reference if both parameters are supplied
jobRef	String	Job Reference	
flaghistory	Bool	Include the flags set against the Job	Optional parameter, if omitted flags are not included
includeCancelled	Bool	Check for cancelled job with the supplied ID or Ref	Optional parameter, if omitted cancelled jobs will not be returned

includeAssistants	Bool	Include assistant detail for the Job	Optional parameter, if omitted assistants are not included
JobPO	String	To search for a job using the PO number, use this parameter instead of JobId and JobRef.	Must be used in conjunction with ContactId
ExcludeJobStatusIds	String	A list of Ids separated by comma used to exclude jobs.	Status Ids are: ID Status 1 New 2 Scheduled 3 Unscheduled 4 Sent 5 Read 6 Accepted 7 Refused 8 OnTheWay 10 Started 11 Suspended 12 CompletedOk 13 CompletedNOK 14 Cancelled
ContactId	Int	To filter for a job using JobPO, you need to get the contactId of the Contact of whom the PO is for.	Optional parameter used to filter where JobPO returns multiple jobs.
ContactParentId	Int	To filter for a job using JobPO. You need to get the contactParentId of the contact of whom the PO is for.	Optional parameter used to filter where JobPO returns multiple jobs.
IncludeWSA	Bool	Includes worksheet answers and their type on job if set to true	Type Ids are: ID Type 0 Boolean 1 Integer 2 Decimal 3 Text 4 List(Multiple) 5 Signature 6 Statement 7 Cost 8 Date 10 Photo 11 Time 12 List(Single) 13 Barcode 14 AppLaunce 16 List(Icon,Single) 17 ListIconMulti 18 OCR 19 File

 Please note:

- RealStart, RealEnd, RealDuration, PrIntName, CustNote and ResNote are only returned if a job is completed
- The different statuses are: New, Scheduled, Unscheduled, Sent, Read, Accepted, Refused, On the way, Resource late, Started, Suspended, Completed, Completed with issues, Cancelled.


4.9. Retrieving a Job Signature (JobSignature)

4.9.1. Required Parameters

Name	Type	Description	Note
Action	String	JobSignature	

4.9.2. Optional Parameters

Name	Type	Description	Note
JobId	Int	Job Watch Job Id	
JobRef	String	Job reference	Unique job reference
JobCustRef	Int	Job customer reference	Auto generated sequential job number

 Please note: Only one of JobId, JobRef and JobCustRef are required, if more than one is supplied the first in the order above will be used. The value returned in "Sig" is a byte array of the signature image data.

4.10. Retrieving Job Worksheets (Jobworksheets)

This service returns the questions and answers for the completed worksheets against a single Job. The response can also include photographs either as a thumbnail, full photo or an image URL

4.10.1. Required Parameters

Name	Type	Description	Note
Action	String	jobworksheets	
JobId	Int	Job Watch Job Id	
JobRef	String	Job reference	Unique job reference
JobCustRef	Int	Job customer reference	Auto generated sequential job number
wsPhotos	String	Controls the types of worksheet photos returned	Can be one of <ul style="list-style-type: none">• None – no photos returned• Thumb – Thumbnail images returned• Full – Full image returned• Url – the URL to the Image

 Please note: Only one of JobId, JobRef and JobCustRef are required, if more than one is supplied the first in the order above will be used.

The value returned in "Sig" is a byte array of the signature image data.

4.11. Retrieving Job Worksheet Questions (Jobworksheetquestions)

Returns the questions, question types, possible answers for list type questions and answers (when already given) for the worksheets of a single job.

4.11.1. Required Parameters

Name	Type	Description	Note
Action	String	jobworksheetquestions	

4.11.2. Optional Parameters

Name	Type	Description	Note
JobId	Int	Job Watch Job Id	
JobRef	String	Job reference	Unique job reference
JobCustRef	Int	Job customer reference	Auto generated sequential job number

 Please note: Only one of JobId, JobRef and JobCustRef are required, if more than one is supplied the first in the order above will be used.

4.12. Setting Job Worksheet Answers (Jobsaveworksheetanswer)

Sets the answer to a worksheet question – can be called before a job is sent to the device to pre-populate the worksheet. Will either update an existing answer if the AnswerID parameter is supplied or will add a new answer for the question if the AnswerID parameter is missing or null.

Please be sure to check if a question has been answered using the JobWorksheetQuestions method and use the AnswerID returned by that call if the answer is to be updated.

4.12.1. Required Parameters

Name	Type	Description	Note
Action	String	Jobsaveworksheetanswer	
QuestionId	Int	Job Watch unique question id	Retrieved from a call to jobWorksheetQuestions
AnswerId	Int	JobWatch unique answer id	Retrieved from a call to jobWorksheetQuestions – if no answerID is specified it is assumed the question has not previously been answered and a new answer is inserted into the DB
Answer	String	Answer value	E.g.: “True”, “3.14”, “List item 1”

4.12.2. Optional Parameters

Name	Type	Description	Note
JobId	Int	Job Watch Job Id	
JobRef	String	Job reference	Unique job reference
JobCustRef	Int	Job customer reference	Auto generated sequential job number

Note	String	Comments or notes on the answer	Applicable to all answer types
Quantity	Double		
ExcITax *	Double	Cost value	Either IncTax or ExcITax should be specified
Vat *	Double	Tax as a percentage of the cost IncTax	
IncTax *	Double	Cost value	Either IncTax or ExcITax should be specified
Currency *	String	ISO 3 character currency identifier	E.g.: "GBP" "USD" "EUR"

 Please note:

Only one of JobId, JobRef and JobCustRef are required, if more than one is supplied the first in the order above will be used.

 * Applicable to cost answer types

4.13. Setting Job Worksheet Answer Image (JobsaveworksheetanswerImage)

Sets the answer to a worksheet question – can be called before a job is sent to the device to pre-populate the worksheet. The question must require a photo as the answer. Will replace any existing image set as the answer.

4.13.1. Required Parameters

Name	Type	Description	Note
Action	String	JobsaveworksheetanswerImage	
JobId	Int	Job Watch unique job id	
Jobref	String	Job Watch job reference	Unique job reference
QuestionId	Int	JobWatch unique question id	Retrieved from a call to jobWorksheetQuestions

4.13.2. POST Body Parameters

Name	Type	Description	Note
Files	multipart MIME format		
attachments	Json object	A serialised String containing details of the file uploaded with the following variables String Filename String Type bool Compressed	Example [[{ Filename: '20190424_155521.jpg', Type: 'image/jpg', Compressed: false}]]

4.13.3. Optional Parameters

Name	Type	Description	Note
AnswerNote	String	Answer note value	
AddWorksheetIfNotPresent	Bool	If true, will add the worksheet to the job if not already present.	1 (true) or 0

4.14. Retrieving Jobs and Worksheet Answers (JobsandworksheetsCSV)

To help in getting data out of JobWatch in a form that can easily be imported into other applications this method will return a CSV file containing the details of a job and the answers given in the worksheet questions for the jobs. Because different jobs can have different worksheet answers the number of columns returned will vary between jobs and calls to this service.

XML and JSON format arguments will be ignored and the data returned in a CSV file on every call.

4.14.1. Required Parameters

Name	Type	Description	Note
Action	String	JobsAndWorksheetsCSV	
Start	Datetime	Date you want jobs data from	Must be in format: yyyy-MM-dd HH:mm:ss
End	Datetime	Date you want jobs data until	Must be in format: yyyy-MM-dd HH:mm:ss

4.14.2. Optional Parameters (Including optional parameters will filter the results)

Name	Type	Description	Note
JobId	Int	Job Watch Job Id	
JobGroup	String	Job group reference	Unique job reference
JobTypeid	Int	Job Watch Job Type Id	Internal job type id (retrieved from JobTypes method)
Resourceid	Int	Job resource ID	Internal ResourceID (retrieved with resources method)
ResourceGroupid	String	Job watch Resource group ID	Internal Id retrieved with ResourceGroups method
Contactid	Int	JobWatch ID of a contact	

4.15. Retrieving Job Types (Jobtypes)

The different job types created by the customer may be retrieved so that when creating new jobs consumers of the service may pass valid values for the type of job to be created.

4.15.1. Required Parameters

Name	Type	Description	Note
Action	String	Jobtypes	

4.16. Setting Worksheet Signature answer (JobSaveWorksheetAnswerSignature)

Sets the answer to a worksheet signature question – can be called before a job is sent to the device to pre-populate the worksheet. The question must require a photo as the answer. Will replace any existing image set as the answer.

4.16.1. Required Parameters

Name	Type	Description	Note
Action	String	jobsaveworksheetanswersignature	
jobId	Int	Job Watch Job Id	If jobId and jobRef are supplied, JobId will take precedence, only one parameter is required
jobRef	String	Job Watch Job reference	
questionId	Int	Job Watch Worksheet Question Id	
Image	Base64	The image that you would like to be shown in the signature	The String should be put into the body of a request rather than as a parameter. The image must also be converted to a Base64 String before being used in this Webservice.

4.16.2. Optional Parameter

Name	Type	Description	Note
signatureName	String	The printed name that will appear below the signature	If this parameter is not populated and the worksheet question does not already have a name, the field will be blank. If the worksheet question already has a name populated and the parameter is not populated, the name will be retained.

4.17. Retrieving Job Categories (Jobcategories)

The different job categories created by the customer may be retrieved so that when creating new jobs consumers of the service may pass valid values for the type of jobcategory for the job to be assigned to

4.17.1. Required Parameters

Name	Type	Description	Note
Action	String	jobcategories	

4.18. Retrieving Job Status History (Jobstatushistory)

Retrieve information about the job statuses: id, date, status, comment, position and owner. Searches by jobId if it has a value, otherwise by jobRef.

4.18.1. Required Parameters

Name	Type	Description	Note
Action	String	Jobstatushistory	
jobId	String	Job Watch Job Id	
jobRef	String	Job reference	Unique job reference

4.19. Retrieving Resource Groups (Resourcegroups)

The different resource groups created by the customer may be retrieved to help with resource synchronisation between different systems.

4.19.1. Required Parameters

Name	Type	Description	Note
Action	String	resourcegroups	

4.20. Retrieving Resources (Resources)

The different resources created by the customer may be retrieved to help with resource synchronisation between different systems and allow the resource Ids to be used when creating new jobs.

4.20.1. Required Parameters

Name	Type	Description	Note
Action	String	resources	

4.20.2. Optional Parameters

Name	Type	Description	Note
resGrp	Int	Returns resources in the specified resource group. This should be the resourcegroup Id.	If resource group has not been found, all resources will be returned
returnCustomFields	Bool	Returns custom fields	

4.21. Adding a Job Way Point (Jobaddwaypoint)

Inserts or replaces an existing waypoint for a job.

4.21.1. Required Parameters

Name	Type	Description	Note
Action	String	jobAddWaypoint	
WPJobId	String	Job Watch Job Id	
WPJobRef	String	Job reference	Unique job reference

4.21.2. Optional Parameters

(Including optional parameters will filter the results)

Name	Type	Description	Note
WpcontactId	Int	If supplied, address details will be taken from this contact	
WPContactRef	String		If <WpcontactId> not supplied, <WPContactRef> will be used to search for contact
WPStreet	String		
WPName	String		
WPPostcode	String		
WPCity	String		
WPCountry	String		

WPLat	Double	Latitude	
WPLon	Double	Longitude	
WPStopLen	Int	Duration	
WPNotes	String		
WPStopNo	Int		
WPReplace	Bool	replace the 40inancia at position <WPStopNo> if set to 1	0 or 1

4.22. Deleting a Job Way Point (Jobdeletewaypoint)

Removes the specified way 40inan for a job. Will show an error if that 40inancia, or no waypoints, exist for the specified job. WPJobId is used, if supplied, to search for the job. If not supplied, WPJobRef is used next.

4.22.1. Required Parameters

Name	Type	Description	Note
Action	String	jobDeleteWaypoint	
WPJobId	String	Job Watch Job Id	
WPJobRef	String	Job reference	Unique job reference
WPStopNo	Int	Must be a valid stop number	

4.23. Retrieving a Job's Way Points (Jobwaypoints)

WPJobId is used, if supplied, to search for the job. If not supplied, WPJobRef is used next.

4.23.1. Required Parameters

Name	Type	Description	Note
Action	String	jobWaypoints	
WPJobId	String	Job Watch Job Id	
WPJobRef	String	Job reference	Unique job reference

4.24. Retrieving a Job's Customer Activity (Jobcustomeractivity)

JobId is used, if supplied, to search for the job. If not supplied, jobRef is used next.

4.24.1. Required Parameters

Name	Type	Description	Note
Action	String	JobCustomerActivity	
jobId	String	Job Watch Job Id	
jobRef	String	Job reference	Unique job reference

4.25. Job Statuses (Jobstatuses)

This service returns a list of all job statuses. Each entry will show Name and ID

4.25.1. Required Parameters

Name	Type	Description	Note
Action	String	jobstatuses	Required

4.26. Job Status Save (jobstatussave)

This service adds or updates a Job Status record.

4.26.1. Required Parameters

Name	Type	Description	Note
Action	String	jobstatussave	Required
Jslid	Int	JobWatch Job Status ID of record to be updated	Not to be provided if a JobId or JobRef is provided
JobId	Int	JobWatch job ID to add status update	Not to be provided if Jslid or JobRef is provided
JobRef	String	JobWatch job reference to add status update	Not to be provided if Jslid or JobID is provided
Status	Int	New JobWatch Job Status	Required
Comment	String	New JobWatch Job Status Comment	
DateTime	DateTime	New JobWatch Job Status Date-Time	Required. "now" can be passed in to use the current time, otherwise a date and time is required in the format: "2019-09-28 11:05:00.000"
WithAlert	Bool	New JobWatch alert status	An optional field that defaults to false if nothing is passed. When set to true, Job Watch Alerts and associated automations will be triggered after the Job Status has been set

4.27. Job Client Statuses (Clientstatuses)

This service returns a list of all job client statuses. Each entry will show Name and ID

4.27.1. Required Parameters

Name	Type	Description	Note
Action	String	clientstatuses	Required

4.28. Date Options (Dateoptions)

This service returns a list of all date options, which are used as an optional filter option in the joblist webservice. Each entry will show Name and ID

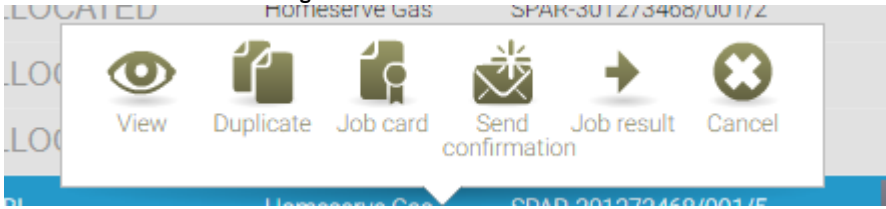
4.28.1. Required Parameters

Name	Type	Description	Note
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Action	String	Dateoptions	Required
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4.29. Send Job Confirmation Email (Emailjobconfirmation)

This service mimics the clicking of the “Send Confirmation” button on the Jobwatch website



The service will trigger the sending of the confirmation to the Job Contact email address, it will pick up the sending email address and name from the white labelling configuration in the My Settings section of the Jobwatch website. If no details are entered a default email address will be used which is “JobWatch <info@bigchange.com”

White labeling

Email address used to send emails

Name used to send emails

The service will only send a confirmation email if the status of the job in question is in one of the following job statuses

- Scheduled
- Accepted
- OnTheWay
- Sent

4.29.1. Required Parameters

Name	Type	Description	Note
Action	String	Emailjobconfirmation	Required
jobId	String	Job Watch Job Id	

4.30. Uploading Job Attachments – POST – (JobAddAttachments)

JobWatch provides services to upload job attachments

The service will accept single or multiple file uploads which will then be attached to the job targeted. This service does not update visibility types of existing attachments

4.30.1. Required Parameters

Name	Type	Description	Note
Action	String	JobAddAttachments	Required

JobId	String	Job Watch Job Id	Required
Files	Form-Data	Binary data of the File(s) to be attached to the Job	Required

4.30.2. Optional Parameters

Name	Type	Description	Note
AddJobGroup	Bool	Add the attachments(s) to the Job Group associated with the "jobId"	
VisibilityTypes	CSV List	Sets the visibility type when uploading the attachment(s)	<p>Valid Visibility types are</p> <ul style="list-style-type: none"> • WebUser • Resource • ContactUser <p>For example if you want to set visibility to WebUser and Resource enter the value "WebUser,Resource"</p> <p>Note : Visibility Types are Case Sensitive and Visibility Types are not updated when this call</p>

4.31. Jobs Count – GET – (JobsCount)

This web service returns a total count and individual count of all job statuses for jobs that have been filtered by a JobWatch contact and where the start date of the job falls between a specified start and end date. A datefilteroption is provided to determine the date filter options – where no datefilteroption is provided, the date used will default to the planned date (the job start date).

4.31.1. Required Parameters

Name	Type	Description	Note
Action	String	Jobscount	Required
ContactId	String	The id of the JobWatch contact record	Where Id not used contact reference must be used instead
ContactReference		The JobWatch contacts reference	
Start	String	Job start date from	
End	String	Job start date to	

4.31.2. Optional Parameters

Name	Type	Description	Note
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Datefilteroption	Int	The date filter option is used to define what date is to be used to filter on	Date filter options are: <ul style="list-style-type: none"> • 0 – Planned • 1 – Actual • 2 – Creation date • 3 – Due Date • 4 – Status Date
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4.32. Set Job Site Address – (JobSiteAddress)

This web service sets the Job Site Address for a job.

4.32.1. Required Parameters

Name	Type	Description	Note
Action	String	JobSiteAddress	Required
SAJobId	id	The id of the JobWatch Job	Where Id not used contact reference must be used instead
SAJobReference	String	The JobWatch Job reference	

4.32.2. Optional Parameters

Name	Type	Description	Note
SAContactId	Int	The JobWatch contacts Id	You can use a contact address to set the job site address using Contact Id or Contact Reference
SAContactReference	String	The JobWatch contacts Reference	
SASStreet	String	Site address street name	
SAName	String	Site Address name	
SAPostcode	String	Site Address Post Code	
SACity	String	Site Address City	
SACountry	String	Site Address Country	
SALat	Double	Site Address Latitude coordinates	
SALon	Double	Site Address Longitude coordinates	
SANotes	String	Site Address Notes	

4.33. Schedule a Job – (JobSchedule)

This web service schedules a job for a selected time.

4.33.1. Required Parameters

Name	Type	Description	Note
Action	String	JobSchedule	Required
jobId	Int	The id of the JobWatch Job	Where Id not used contact reference must be used instead
jobRef	String	The JobWatch Job reference	
resourceId	Int	The JobWatch Resource id	If asset id or asset reference is not populated, resource reference or resource id must be supplied
resourceRef	String	The JobWatch Resource Reference	
assetId	Int	The JobWatch asset id	
assetRef	String	The JobWatch asset reference	
scheduleDate	DateTime	Date and time that the job should be scheduled	Format : yyyy-MM-dd HH:mm:ss
durationMins	Int	Duration time of the Job in minutes	

4.34. Update Job Stock quantity – (JobUpdateStockQty)

This web service updates the stock quantity on a job.

4.34.1. Required Parameters

Name	Type	Description	Note
Action	String	JobUpdateStockQty	Required
jobStockId	Int	Id of actual Job Stock Item	
stockQuantity	decimal	Updated stock qty	

4.35. Delete Job Stock– (JobDeleteStock)

This web service removes a specific line of stock from a job.

4.35.1. Required Parameters

Name	Type	Description	Note
Action	String	JobDeleteStock	Required
jobRef	String	JobWatch Job Reference	If a Job Reference is not supplied, Job id must be supplied instead
jobId	Int	JobWatch Job Id	
jobStockId	Int	JobWatch Stock Item id	

4.36. Job Scheduling Assistant – (JobSchedulingAssistant)

Use this method to retrieve the most suitable resources for scheduling.

This method is a program wrapper around the Job Watch Scheduling Assistant.

4.36.1. Required Parameters

Name	Type	Description	Note
Action	String	JobSchedulingAssistant	Required
schedulingType	Int	1= Resources, 2 = Vehicles	If a Job Reference is not supplied, Job id must be supplied instead
latitude	Double	Latitude Coordinates	
longitude	Double	Longitude Coordinates	
fromDate	date	Date to schedule from	Must be in format: yyyy-MM-dd
toDate	date	Date to schedule to Date range is capped at 7 days	Must be in format: yyyy-MM-dd

4.36.2. Optional Parameters

Name	Type	Description	Note
when	Int	0= Anytime, 1 = 00:00 – 12:00, 2 = 12:00 – 23:59 , 3 = Other	
whenFrom	time	Time slot hh:mm	
whenTo	time	Time slot hh:mm	
jobId	Int	Specific id of Job to be scheduled	
resourceId	Int	Specific id of Resource	
resourceGroupId	Int	Specific Resource Group Id	
assetId	Int	Specific id of Asset	
assetGroupId	Int	Specific Asset Group Id	
skills	String	Pipe separated list of required Skill Ids	
attributes	String	Pipe separated list of required Attribute Ids	

4.37. Update Job Reference– (JobUpdateReference)

This web service allows the update of a jobs reference. The service will reject any update that would result in a duplicate job reference

4.37.1. Required Parameters

Name	Type	Description	Note
Action	String	JobUpdateReference	Required
jobRef	String	JobWatch Job Reference	If a Job Reference is not supplied, Job id must be supplied instead
jobId	Int	JobWatch Job Id	
targetJobRef	String	New Job Reference to apply to the job	Duplicate job references are disallowed

4.37.2. Optional Parameters

Name	Type	Description	Note
returnType	Int	Alters the details returned from a successful call	0– Returns JobID (Default) 1– Returns JobId + JobReference 2- Returns JobId + JobGroupID (if job is in a job group)

		Note: If not supplied the default return type is returned	3- Returns JobId + JobReference + JobGroupID (if job is in a job group)
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4.38. Update Job Assistants– (JobAddAssistants)

This web service allows the update of assistants on a Job.

4.38.1. Required Parameters

Name	Type	Description	Note
Action	String	JobAddAssistants	Required
jobReference	String	JobWatch Job Reference	If a Job Reference is not supplied, Job id must be supplied instead
jobId	Int	JobWatch Job Id	
resourceReference	String	Reference of the resource	To add multiple assistants using ResourceReference, add multiple resourceReference parameters to the query string. IE resourceReference=aaa&resourceReference=bbb etc
resourceId	Int	Id of the resource	To add multiple assistants using resourceId, add multiple resourceId parameters to the query string. IE resourceId=111&resourceId=222 etc

4.39. Add Job Recurrence – (JobAddRecurrence)

The JobAddRecurrence webservice adds a recurrence to Jobs

4.39.1. Required Parameters

Name	Type	Description	Note
Action	String	JobAddRecurrence	
jobReference	String	JobWatch Job Reference	If a Job Reference is not supplied, Job id must be supplied instead
jobId	Int	JobWatch Job Id	
RecurrencePatternId	Int	JobWatch Recurrence Id	

4.39.2. Optional Parameters

Name	Type	Description	Note
RecurToUnallocated	Bool		To allow the recurrence to recur to unallocated jobs, set this parameter to true

4.40. View List of Recurrence Patterns – (RecurrencePatternList)

The RecurrencePatternList webservice returns a list of recurrence patterns

4.40.1. Required Parameters

Name	Type	Description	Note
Action	String	RecurrencePatternList	

4.40.2. Optional Parameters

Name	Type	Description	Note
entityTypeid	int	This parameter selects an entity. For example, if you want to look at job recurrences, entityTypeid would equal 1.	Job = 1 Report = 2 Invoice = 3 StockItem = 4 Contract = 5 JobGroup = 6 LinkedJobGroup = 7 JobGroupTemplate = 8
ExcludeNoEndPattern	bool		To exclude recurrences that don't have an end pattern, set this parameter to true

4.41. Update Job Group title, owner, status and/or planned dates – (JobGroupDetailUpdate)

The JobGroupDetailUpdate webservice allows users to update the Job Group title, owner, status and/or planned date fields of a group job. The user will need the following rights for this request to work correctly: view allocated jobs, view unallocated jobs and create/edit jobs. If a key is accidentally provided without a value, any existing old values will be kept and will not be overwritten with an empty value.

4.41.1. Required Parameters

Name	Type	Description	Note
Action	String	JobGroupDetailUpdate	
jobGroupReference*	String	The Group Job Reference of the job to be updated	*jobGroupID can be used instead of this parameter but one of them must be used in order to retrieve the corresponding group job. jobGroupID takes precedence over jobGroupReference, if both parameters are supplied. If you have multiple group jobs with the same reference, consider passing jobGroupID as this value will always be unique.
jobGroupID*	Int	The id of the group job to be updated	*jobGroupReference can be used instead of this parameter but one of

			<p>them must be used in order to retrieve the corresponding group job.</p> <p>jobGroupId takes precedence over jobGroupReference, if both parameters are supplied.</p> <p>If you have multiple group jobs with the same reference, consider passing jobGroupId as this value will always be unique.</p> <p>The jobGroupId for a group job can be acquired by holding Ctrl & Shift & Alt and clicking on the group job row within the group job list view on the schedule tab.</p>
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4.41.2 Optional Parameters

Name	Type	Description	Note
newJobGroupOwnerTitle	String	The title to be set for the chosen group job	If you wish to clear an existing title field using this parameter, simply pass a singular space as this parameters value e.g. " "
newJobGroupOwnerEmail	String	The email address of the user chosen to be the new owner of the group job.	If the email is found successfully, the linked user's name will be set as the group job owner.
newJobGroupStatus	Int	Sets the group job status to one of the following statuses that may be manually selected for a group job: In Progress, Complete, Financially Complete.	4 = In Progress 5 = Complete 6 = Financially Complete
newPlannedStartDate	DateTime	Sets the group job Start date to 'On a set date' with the date passed.	Must be in format yyyy-MM-dd
newPlannedEndDate	DateTime	Sets the group job End date to 'On a set date' with the date passed.	Must be in format yyyy-MM-dd

4.42. Cancel all Jobs in a Group – (JobGroupCancel)

Method to cancel all jobs in a JobGroup

4.42.1. Required Parameters

Name	Type	Description	Note
Action	String	JobGroupCancel	
jobGroupld	Int	Id of Job Group containing Jobs to be cancelled	Job Group Id or Job Group Reference must be specified Job Group Id takes precedence over Job Group Reference if both fields are supplied
jobGroupReference	String	Reference of Job Group containing Jobs to be cancelled	

4.42.2. Optional Parameters

Name	Type	Description	Note
cancelReason	String(50)	Reason for cancelling jobs	Defaults to Cancelled by API user: (username)
keepRecord	bool	Retain a copy of the job as 'cancelled'	Defaults to true
excludeJobTypeIds	List<Int>	List any job types ids to exclude when cancelling jobs	All id's when provided must be numeric and for valid Job Types.

5. Contracts

5.1. Retrieving a list of contracts (contractslist)

The “contractslist” web service retrieves a list of all financial contracts with contract dates that start, and end based on the optional date parameters entered. The date format is based on yyyy-MM-dd only.

5.1.1. Required Parameters

Name	Type	Description	Note
Action	DateTime	contractslist	Must be in format: yyyy-MM-dd

5.1.2. Optional Parameters

Name	Type	Description	Note
Datefrom	DateTime	Start date of the contract	Must be in format: yyyy-MM-dd
Dateto	DateTime	End date of the contract	Must be in format: yyyy-MM-dd

RowCount	Int	Adds a row count option to the routine to limit the number of rows being returned	
includeCustomFields	Bool	Include any custom fields	1 = true, 0 = false

5.2. Adding or editing a contract (contractsave)

The “contractsave” webservice will add or edit a contract based on the required parameters that are entered below. Each of the parameters below will correspond to the section and field name of a contract. When running this web service, an output of the contract’s details is provided.

5.2.1. Required Parameters


Name	Type	Description	Note
Action	String	contractsave	
ContractId	Int	Contracts Contract Id	If amending an existing contract
Contractreference	String	Contracts contract reference	Specify if creating a new contract
ContactId	Int	Contracts Contact Id	If contract reference not used
Contactreference	String	Contracts Contact Reference	If contact Id not used
Contractlinedescription	String	Contracts Invoice line description	
Currency	String	Contracts Currency	Specify if creating a new contract
Vatcode	String	Contracts VAT Code	Specify if creating a new contract
Initialpayment	Double	Contracts Initial Payment	Specify if creating a new contract
Minimumpayment	Double	Contracts Minimum Payment	Specify if creating a new contract
Minimumcontractstartdate	DateTime	Minimum period contract start date	Specify if creating a new contract
Recurrence1	String	Minimum period payment recurrence	Specify if creating a new contract

5.2.2. Optional Parameters:

Name	Type	Description	Note
ContractId	Int	The JobWatch contract Id	
ContactId	Int	The JobWatch contact Id	
Contractreference	String	The JobWatch contract reference	
Contactreference	String	The JobWatch contacts contact reference	
Contractcreationdate	DateTime	The date the contract is created	
Contractenddate	DateTime	The date the contract ends	
NominalCode	String	The contracts nominal code	
DepartmentCode	String	The contracts department code	
Vatcode	String	The contracts vat code	
Currency	String	The contract currency	GBP
Initialpayment	Double	The initial payment of the contract	
Recurrence1	String	Minimum period payment recurrence	
Minimumcontractstartdate	DateTime	Minimum period contract start date	See Recurrence format
Minimumpayment	Double	Minimum period payment	
Afterminimumstartdate	DateTime	After minimum period start date	

Recurrence2	String	After minimum period recurrence	See Recurrence format
Afterminimumpayment	Double	After minimum period payment	
Contractlinedescription	String	Contracts invoice line description	
Contractnotes	String	Contracts notes	
ContractInternalnotes	String	Contracts Internal notes	

5.2.3. Recurrence Format:

 The recurrence Strings are delimited by a pipe and they are split into the below parameters. Examples of the Strings have been provided below.

5.2.4. Required Parameters

Name	Split	Description	Note
Recurrence	0	Daily, Monthly, Weekly, Weekofmonth	
DaysOfWeek	1	Numerical value	0 = Sunday, 6 = Saturday
DayOfMonth	2	Numerical value	1 to 28
WeekOfMonth	3	Numerical value	0 = last, 1 = First, 4 = Fourth
Interval	4	Occurs Every	
EndDate	5	End By	
RepeatCount	6	End After x occurrences	

5.3. Retrieving a contract by its contract Id (contractsbyid)

The contractsbyid retrieves a specific contract where the 52inancial52 is specified. When the web service is called, the output returns the contracts contract details.

5.3.1. Required Parameters

Name	Type	Description	Note
Action	String	contractsbyid	
contractId	Int	Contracts Contract Id	

5.4. Retrieving a contract by its contract reference (contractsbyreference)

The web service “contractsbyreference” retrieves a contract based on the contract reference specified. When called, the output returns the contracts id and the contract reference.

5.4.1. Required Parameters

Name	Type	Description	Note
Action	String	contractsbyreference	
Contractreference	String	Contracts Reference	

5.5. Retrieving a contracts financial lines by its contract Id (ContractFinancialLines)

The webservice “contractfinanciallines” returns an output of the contract financial line based on the contract id specified.

5.5.1. Required Parameters

Name	Type	Description	Note
Action	String	ContractFinancialLines	
contractId	Int	Contracts Contract Id	Must be specified if adding a new item

5.6. Adding a financial line to a contract (addcontractfinancialline)

The “addcontractfinancialline” web service is used to create or amend an invoice line on a financial contract. When creating a new financial line, you must specify the id of the contract and the parameters below. To amend a contract financial line, you only need to pass in the item id. An output of the financial line details is provided.

5.6.1. Required Parameters

Name	Type	Description	Note
Action	String	addcontractfinancialline	
contractId	Int	Contracts Contract Id	Must be specified if adding a new item
ItemId	Int	Financial Item Id	Must be specified if amending an existing item
Quantity	Double	Financial line quantity	Must be specified if creating a new item line
InvoiceDescription	String	Financial line invoice description	Must be specified if creating a new item line and not using a stock or predefined item
UnitPrice	Double	Financial line unit price	Must be specified if creating a new item line
VatCode	String	Financial line vat code	Must be specified if creating a new item line or where a stock item does not have a vat code specified.
CurrencyCode	String	Financial line currency code	Must be specified if creating a new item line

5.6.2. Optional Parameters

Name	Type	Description	Note
contractId	Int	Contracts Contract Id	If amending an existing contract
ItemId	Int	Financial Item Id	Specify if amending an existing item
NominalCode	String	Financial line nominal code	
DepartmentCode	String	Financial line department code	
Description	String	Financial line item description	
CurrencyCode	String	Financial line currency code	
CostPrice	Double	Financial line cost	
UnitPrice	Double	Financial line unit price	
DiscountedPercentage	Double	Financial line discounted percentage	
DiscountedValue	Double	Financial line discounted value	

Quantity	Double	Financial line quantity	
VatCode	String	Financial line VAT Code	
PredefinedItemId	Int	Financial line predefined Id	
InvoiceDescription	String	Financial line invoice description	
StockItemId	Int	Financial line stock item id	
ItemType	String	Financial line item type	Stock , Predefined or freetext

6. Tracking service

6.1. Retrieving last known position of resources and mobile assets (Live)

6.1.1. Required Parameters

Name	Type	Description	Note
Action	String	Live	

Please note:

- Date will be in the time zone of the user logged in
- Speed will be in km/h or mph depending on the settings of the user logged in
- PositionContactName will only be returned if the resource stopped at a known contact.
- Sometimes, no asset or position information is returned, e.g. when a resource is in private mode

6.2. Retrieving resource journey data – (Journeys)

6.2.1. Required Parameters

Name	Type	Description	Note
Action	String	journeys	
Start	Date	Date you want journey data from	Must be in format: yyyy-MM-dd
End	Date	Date you want journey data until	Must be in format: yyyy-MM-dd

 Please note:

- Dates will be in the time zone of the user logged in
- Speed and distance will be in kilometre or miles depending on the settings of the user logged in
- StartContact and StopContact will only be returned if the resource started or stopped at a known contact.

6.3. Retrieving mobile assets last known odometer – (Odometer)

6.3.1. Required Parameters

Name	Type	Description	Note
Action	String	Odometer	



Please note:

- mobile asset with no tracking information won't be returned
- Odometer will be in km or miles depending on the settings of the user logged in

6.4. Retrieving mobile assets last known odometer and last known position – (LiveOdometer)

6.4.1. Required Parameters

Name	Type	Description	Note
Action	String	LiveOdometer	

6.4.2. Optional Parameters

Name	Type	Description	Note
AssetRegistration	String	The assets registration number	If not populated or passed, all assets with position and odometer will be returned

 Please note:

- Dates will be in the time zone of the user logged in
- Speed and distance will be in kilometre or miles depending on the settings of the user logged in
- StartContact and StopContact will only be returned if the resource started or stopped at a known contact.
- mobile asset with no tracking information won't be returned
- Odometer will be in km or miles depending on the settings of the user logged in

7. Stock service

7.1. Add new stock item (Addstock)

In this situation “StockType[xxx]” refers to a category of stock e.g. Cars, Vans, bicycles; “Stock[xxx]” refers to a particular make / model e.g. BMW 6 series and “Item[xxx]” refers to a physical item e.g.: BMW 6 series, registration YA55 ABC”

7.1.1. Required Parameters

Name	Type	Description	Note
Action	String	Addstock	
StockTypeName	String(100)	Name of stock type (category)	Category of stock e.g. Cars, Vans, bicycles
StockMake	String(100)	Make of stock	E.g. BMW
StockModel	String(100)	Model of stock	E.g. 6-Series
ItemSerialNo	String(120)	Serial number of a physical stock item	Unique item serial number E.g. “YA55123”

7.1.2. Optional Parameters

Name	Type	Description	Note
StockModelNumber	String(100)	Model number of stock	Refinement of Model e.g. 6-Series GTI
Quantity	Int	Quantity of stock	Number of stock items for a Stock Make/Model Defaults to 1
Usage	Double	Amount of stock usage	For Stock items that record a usage value such as hours used, mileage, days remaining etc
Notes	String(250)	Notes for stock	
Created	Date	Date stock added	Defaults to now
ReplaceQty	Bool	If set to true overwrites the stock qty rather than default operation of accumulating	Default = false
SellingPrice	Double	Selling price of the stock item	
Size	Double	Size of stock item	
Weight	Double	Weight of stock Item	
SupplierName	String(50)	Name of supplier	
SupplierRef	String(40)	Reference of supplier	
SupplierCost	Double	Suppliers charge for stock item	
SupplierCurrency	String	Suppliers currency code	e.g. Uk Stirling = “GBP”
ContactName	String(50)	Name of contact to add stock	
ContactReference	String(40)	The reference of the contact to add stock to	Used to identify the correct contact
VehicleRegistration	String(40)	Registration of vehicle. Used if stock is to be placed into van stock	Must be a valid existing vehicle registered on jobwatch
StockCode	String(100)		
stockBatchCode	String(100)	Identifies the batch code for the stock item	
IsEquipment	Bool	Signifies if the stockitem is equipment	
solddate	DateTime	Set the “sold date”	

currentstockitemref	String(120)	Reference to parent stock item	Optional reference to a part stock item. If supplied, this stock item is treated as a “part”
customerserialnumber	String(120)	Customer serial number	Optional parameter
supplierserialnumber	String(120)	Suppliers serial number	Optional parameter
altserialnumber	String (120)	Alternative serial number	Optional parameter



Please note:

- Subsequent calls will not update Size, Weight or Selling Price

7.2. Add Stock to Job – (JobAddStock)

This call associates a stock item with a job so it will appear in the stocks details when viewing a job.


7.2.1. Required Parameters

Name	Type	Description	Note
Action	String	jobaddstock	
StockId	Int	Unique JobWatch stock ID for this type of stock item	Retrieved by web service call “findstock” or “addstock”
JobId	Int	Unique job number	Unique JobWatch JobID
JobRef	String	Job reference	Unique job reference

 Please note: Only one of JobId, JobRef and JobCustRef are required, if more than one is supplied the first in the order above will be used.

7.2.2. Optional Parameters

ItemId	String	Unique JobWatch stock item id for a physical stock item	Retrieved by web service call “findstock” or “addstock”
Stock Movement	Int	Describes the movement of stock	No Movement = 1, (default) Brought And Left = 2 Brought And taken Back = 3, Brought To Swap = 4, On Site And Taken back = 5, On Site And left = 6
stockQuantity	Int	When populated, this field adds the quantity of stock on the job.	
PickupRef	String	Contact reference of the pickup location for a stock movement	Customer supplied reference
PickupId	Int	Contact ID of the pickup location for a stock movement	JobWatch ID of the contact
DropOffRef	String	Contact reference of the drop off location for a stock movement	Customer supplied reference
DropOffId	Int	Contact ID of the drop off location for a stock movement	JobWatch ID of the contact
DeliveredToBeSold	Bool	If set to true, the tick box “Delivered to be sold” will be ticked	
pickuptypeld	Int	Determines whether the pick up is an asset or a contact. The routine defaults to contact if nothing is passed.	Contacts = 1 Assets = 2

 Please note: If the ItemId is not supplied the job will still have stock allocated but the engineer can select the actual item used when the job is completed. i.e. “This job will require new part of type {stockId}” where the actual physical item {ItemId} is not yet known.

7.3. Update Stock Qty on a Job – (JobUpdateStockQty)

This call updates a stock item within a job with a revised Stock Quantity which it will appear in the stocks details when viewing a job.

7.3.1. Required Parameters

Name	Type	Description	Note
Action	String	JobUpdateStockQty	
JobStockId	Int	Stock Line Identifier within the Job	Returned when the Stock Line as added to the Job using “JobAddStock”
StockQuantity	decimal	Updated quantity of stock from the Job.	

7.4. Find Stock (FindStock)

Query the database by stock make, model or model number.

7.4.1. Required Parameters

Name	Type	Description	Note
Action	String	Findstock	
Make	String	Make of stock to query	Min length 3
Model	String	Model of stock to query	Min length 3
Number	String	Model number of stock to query	Min length 3

 Please note: supply at least 3 characters for make, model or number

7.5. Find Stock Item (Findstockitem)

Query the database by stock item serial number.

7.5.1. Required Parameters

Name	Type	Description	Note
Action	String	Findstockitem	
ItemSerialNo	String	Serial number of item to find	
StockItemId	Int	Id of item to find	

7.5.2. Optional Parameters

Name	Type	Description	Note
withCurrentLocInfo	Int	Include current contact location in the response	Value of 1 includes the location detail. Value of 0 excludes the location detail.
includeDeleted	Int	Include deleted items in the response	Value of 1 includes deleted items. Value of 0 excludes deleted items.
includeCustomFields	Int	Include custom fields in the response	Value of 1 includes custom fields Value of 0 excludes custom fields

7.6. Find Stock Associated with a Job (Jobstock)

Returns a list of the stock items associated with a specific job.

7.6.1. Required Parameters

Name	Type	Description	Note
Action	String	jobstock	

JobId	Int	Job Watch Job Id	
JobRef	String	Job reference	Unique job reference
JobCustRef	Int	Job customer reference	Auto generated sequential job number

A Please note: Only one of JobId, JobRef and JobCustRef are required, if more than one is supplied the first in the order above will be used. When calling the JobStock function the results can be different for different stages of the job lifecycle.

- Before a job is completed the stock returned is the **stock that is planned to be used on the job**.
- Once the job is completed the stock returned by this method will list the **items actually used on the job**.
- You can differentiate between the two with the “Confirmed” field – when true the stock has actually been used, when false the stock is planned to be used.

7.7. Retrieve stock & custom fields associated with a job (Jobsandstockcustomfieldscsv)

Returns a list of the stock items associated with jobs, including the values of the stock Custom Fields in a **CSV file**.

A XML and JSON format arguments will be ignored and the data returned in a CSV file on every call.

7.7.1. Required Parameters

Name	Type	Description	Note
Action	String	JobsAndStockCustomFieldsCSV	
Start	Datetime	Date you want jobs data from	Must be in format: yyyy-MM-dd HH:mm:ss
End	Datetime	Date you want jobs data until	Must be in format: yyyy-MM-dd HH:mm:ss
JobCustRef	Int	Job customer reference	Auto generated sequential job number

7.7.2. Optional Parameters (adding optional parameters will filter the results)

Name	Type	Description	Note
JobId	Int	Job Watch Job Id	
JobGroup	String	Job group reference	Unique job reference
JobTypeId	Int	Job Watch Job Type Id	Internal job type id (retrieved from JobTypes method)
ResourceId	Int	Job resource ID	Internal ResourceId (retrieved with resources method)
ResourceGroupId	String	Job watch Resource group ID	Internal Id retrieved with ResourceGroups method
ContactId	Int	JobWatch ID of a contact	

7.8. Find Stock by Contact Location (Findstockitembycontact)

Returns a list of the stock items at the selected Contact location.

7.8.1. Required Parameters

Name	Type	Description	Note
Action	String	FindStockItemByContact	

62inancial	Int	The JobWatch contact Id	
contactreference	Int	Customer supplied contact reference	

7.8.2. Optional Parameters

Name	Type	Description	Note
includeCustomFields	Int	Include custom fields in the response	Value of 1 includes custom fields Value of 0 excludes custom fields

7.9. Find Stock by Asset (Findstockitembyasset)

Returns a list of the stock items by the selected asset id or registration.

7.9.1. Required Parameters

Name	Type	Description	Note
Action	String	findstockitembyasset	
assetid	Int	The JobWatch asset Id	
assetregistration	Int	The registration of the asset	

7.9.2. Optional Parameters

Name	Type	Description	Note
includeCustomFields	Int	Include custom fields in the response	Value of 1 includes custom fields Value of 0 excludes custom fields

7.10. Delete Stock Item (Stockitemdelete)

Delete a specific Stock Item by serial number or stock item id

7.10.1. Required Parameters


Name	Type	Description	Note
Action	String	StockItemDelete	
ItemSerialNo	String	Serial number of item to delete	
StockItemId	Int	Id of item to delete	

7.11. Save Stock Details (stocksave)

Enables a user to save or overwrite the stock details on a master stock record.

7.11.1. Required Parameters

Name	Type	Description	Note
Action	String	stocksave	
Oldstockmake	String	The Stock Make of the Master record to change	
Oldstockmodel	String	The Stock Model of the Master record to change	
Oldstockmodelnumber	String	The Stock Model number of the master record that is being modified.	
Newstockmake	String	The new stock make	
Newstockmodel	String	The new stock model	
Newstockmodelnumber	String	The new stock model number	
Size	Double		
Weight	Double		
SellingPrice	Double		
StockCurrency	String		
Stockcode	String		
DepartmentCode	String		
NominalCode	String		
VATCode	String		
Batchcode	String		
Notes	String		
StockTypeName	String		
isConsumable	Bool		
StockIntegrationCode1	Int	This is the tracking option Id	This option replaces the department code and is used for the Xero integration
StockIntegrationCode2	Int	This is the tracking option Id	This option replaces the department code and is used for the Xero integration
StockOwnerId	Int		

 Where the stock make, model and number are the changing, ensure that old and new stock make, model and number are the same.

7.12. List stock make and models (liststockmakemodel)

List stock make and models that are stored in your JobWatch site.

7.12.1. Required Parameters

Name	Type	Description	Note
Action	String	Addstock	

7.12.2. Optional Parameters

Name	Type	Description	Note
displaycount	Int	Filter the number of stock items to display	
stockcolumn	String	The stock column name to sort on – defaults to stockmake if not specified	
direction	String	Filter on the direction of list items – asc or desc	
productgroup	String	Filter by the product group name	
searchterm	String	Filter by a search term	

7.13. Delete Stock Make/Model (deletestockmakemodel)

Delete stock based from Id.

7.13.1. Required Parameters

Name	Type	Description	Note
Action	String	deletestockmakemodel	
Stockid	Int		

7.14. List stock reorder level (liststockreorderlevel)

List all stock reorder level for stock items.

7.14.1. Required Parameters

Name	Type	Description	Note
Action	String	liststockreorderlevel	

7.15. Add to stock reorder level (addstockreorderlevel)

Adjust the stock reorder level for a stock item.

7.15.1. Required Parameters

Name	Type	Description	Note
Action	String	Addstockreorderlevel	
Stockid	Int		
Entitytype	Int	If the stock is assigned to a contact, please select 1. If the stock is related to a asset, please select 2.	Entity Types to choose from are: <ul style="list-style-type: none"> Contact = 1 Asset = 2
entityId	Int	The id of the contact or the asset	
quantity	Double	Quantity determines order level increase	

7.15.2. Optional Parameters

Name	Type	Description	Note
stockreorderid	Int	Filter the number of stock items to display	

7.16. Stock Movements (findstockmovements)

Show stock movements within a 24 hour date range.

7.16.1. Required Parameters

Name	Type	Description	Note
Action	String	findstockmovements	
Start	DateTime	Start of date range	Must be in format: yyyy-MM-dd HH:mm:ss
End	DateTime	End of date range (Date range cannot exceed 24 hours)	Must be in format: yyyy-MM-dd HH:mm:ss
ResourceId	Int		

7.16.2. Optional Parameters

Name	Type	Description	Note
ContactId	Int	Filter by contact id	
Make	String	Filter by Make	
Model	String	Filter by Model	

7.17. Delete stock reorder level (deletestockreorderlevel)

Delete stock reorder level for a stock item.

7.17.1. Required Parameters

Name	Type	Description	Note
Action	String	deletestockreorderlevel	
stockreorderid	Int		

7.18. Get stock worksheets for job (getstockworksheetsforjob)

Retrieves a list of worksheets based on jobs stock item.

7.18.1. Required Parameters

Name	Type	Description	Note
Action	String	getstockworksheetsforjob	
jobId	Int	Filter by JobId	
jobRef	String	Filter by Job Reference	

7.18.2. Optional Parameters

Name	Type	Description	Note
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stockitemid	Int	Filter by StockItemid	This is an optional field to filter the worksheets by a stockitemid. If left empty all stockitems will be processed.
UseMovement	Bool	Uses the stock movement for the job to retrieve stock items instead of the job stock	

7.19. Find Stock on Planned Jobs (findstockonplannedjobs)

7.19.1. Required Parameters

Name	Type	Description	Note
Action	String	findstockonplannedjobs	
StockItemid	Int	Filter by StockItemid	The stock item assigned to the planned job

7.20. Save Stock Item (stockitemsave)

Enables a user to save or overwrite the stock details on a stock item record

7.20.1. Required Parameters

Name	Type	Description	Note
Action	String	stockitemsave	
StockItemid	Int	Filter by Stock Item Id	Enter the StockItemid or ItemSerialNumber to retrieve the stockitem record
ItemSerialNumber	String	Filter by Item Serial Number	As above

7.20.2. Optional Parameters

Name	Type	Description	Note
Quantity	Int	Quantity of the consumable stock item	Where item is set to consumable
NewItemSerialNumber	String	Enter a new item serial number	Modifies the existing stock items serial number
CustomerSerialNumber	String	Record the customer serial number	
SupplierSerialNumber	String	Record the supplier serial number	
AltSerialNumber	String	Record the alt serial number	
Usage	Double	Modified the current usage of the stock item	Only available where the item is a serialised item
Notes	String	Change the notes of the stock item record	Overwrites the existing stock note
IsEquipment	Bool	Modifies the switch to determine whether the stock item record is set as equipment or stock	

8. Routes service

JobWatch will allow the user to create and save routes that can be applied many times to the schedule for different resources or vehicles.

For example, a regular delivery route may contain the same stops each time it's done – to save creating individual jobs for each delivery every time the route is run you can create a route that has the locations to be visited and the jobtype to be done at each stop. For full details on routes please refer to the main JobWatch user guide.

8.1. List Routes (Routes)

The routes web service returns a list of routes currently in use.

8.1.1. Required Parameters

Name	Type	Description	Note
Action	String	Routes	

8.2. Save a New Route (Routesave)

Adds a new route or edits an existing route

8.2.1. Required Parameters

Name	Type	Description	Note
Action	String	RouteSave	
RouteName	String	Name displayed on the web Interface for this route	

8.2.2. Optional Parameters

Name	Type	Description	Note
RouteId	Int	ID of an existing route you want to edit	If no route with this id can be found an error is raised. If omitted a new route will be created.

8.3. Delete a Route (Routedelete)

Deletes an existing route

8.3.1. Required Parameters

Name	Type	Description	Note
Action	String	Routedelete	
Routeid	Int	ID of the route to delete	

8.4. List Route Stops (RouteStops)

Lists all the stops of an existing route.

8.4.1. Required Parameters

Name	Type	Description	Note
Action	String	Routestops	

Routeid	Int	ID of the route to list stops for	
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8.5. Add Stops to Routes (Routeaddstop)


Adds a new stop to the end of a route

8.5.1. Required Parameters

Name	Type	Description	Note	
Action	String	Routeaddstop		
Routeid	Int	ID of the route to edit		
ContactId	Int	ID of an existing contact	Contact location where the stop will be created	One of contactId or Ref is required. ID takes precedence over ref where both supplied
ContactRef	String	Contact reference for an existing contact	Contact location where the stop will be created	
JobTypeId	Int	ID of a jobtype for the stop being added to the route	Values discovered using jobtypes method	One of JobTypeId or Name is required. ID takes precedence over ref where both supplied
JobTypeName	String	Name of the job type for the stop being added to the route	Values discovered using jobtypes method	

8.5.2. Optional Parameters

Name	Type	Description	Note
StopDur	Int	Job/stop duration in minutes	Defaults to 15 if omitted
StopTime	timespan	Time of day to schedule the job	Format "HH:MM:SS" – 24 hour
StopDescription	String	Description of the stop/job	Will appear as the job description when scheduled

 You can specify stopTime for each stop in a route and the system will schedule the jobs for those times. If you do not specify a stop time the system will determine the correct driving time between the stops and when scheduled will apply the jobs/ stops to the schedule allowing for the driving time between each stop.

8.6. Delete Stops from a Route (Routedeletestop)

Adds a new stop to the end of a route

8.6.1. Required Parameters

Name	Type	Description	Note
Action	String	Routedeletestop	
Routeid	Int	ID of the route to edit	
StopId	Int	ID of an existing stop on the route to remove	

9. Financial

JobWatch will allow the user to query the solution to send and retrieve information regarding financial documents provided by the solution in order to synchronise details with 3rd Party financial solutions such as SAGE

For example, it is possible to retrieve details of invoices created in the system, process the returned records then update the status of the retrieved invoices once processing in a remote system has concluded.

It is also possible to load and maintain certain financial lookup details such as Tax rates and company Nominal codes

9.1. Retrieving Invoices (Invoices)

As remote systems retrieve invoice details JobWatch will set the Invoice Sync Status to “2 – Sending” JobWatch expects the remote system to reply using the “[InvoiceSetStatus](#)” web service to update the JobWatch sync status for each invoice returned.

If after a period of 5 minutes no status update is received the invoice will be reset to the status of 1 – Unsent

9.1.1. Required Parameters

Name	Type	Description	Note
Action	String	Invoices	
SyncStatus	Int	Retrieves Invoice details for specified status	SyncStatus Options 1 = Unsent 2 = Sending 2 = Sent 4 = Processed 5 = Errored

9.1.2. Optional Parameters

Name	Type	Description	Note
Start	DateTime	Specifies the start date from which invoices will be retrieved	
End	DateTime	Specifies the end date to which invoices will be retrieved	

9.2. Retrieving Invoices with items (Invoiceswithitems)

As remote systems retrieve the invoice details where the invoice status is set to 1, JobWatch will set the Invoice Sync Status to “2 – Sending”. JobWatch expects the remote system to reply using the “[InvoiceSetStatus](#)” web service to update the JobWatch sync status for each invoice returned.

If after a period of 5 minutes no status update is received the invoice will be reset to the status of 1 – Unsent

9.2.1. Required Parameters

Name	Type	Description	Note
Action	String	Invoiceswithitems	
SyncStatus	Int	Retrieves Invoice details for specified status	SyncStatus Options 1 = Unsent 2 = Sending 2 = Sent 4 = Processed 5 = Errored

9.2.2. Optional Parameters

Name	Type	Description	Note
Start	DateTime	Specifies the start date from which invoices will be retrieved	
End	DateTime	Specifies the end date to which invoices will be retrieved	
V2	Int	1 = true	Additional parameter that when specified provides an alternative JSON output. The parameter also exposes the stock item stock code field (if it is populated).

9.3. Updating Invoice Synchronisation Status (Invoicesetstatus)

Once invoices have been retrieved Jobwatch will set the synchronisation status of individual invoices to 2 -Sending. Jobwatch expects to be updated following processing of the retrieved invoices by the remote system.

If after a period of 5 minutes no status update is received the invoice will be reset to the status of 1 – Unsent unless an update has been received via this webservice

9.3.1. Required Parameters

Name	Type	Description	Note
Action	String	invoicesetstatus	
Invoiceld	Int		Returned as Reference field from invoices web service above
SyncStatus	Int	Invoice Status to set individual invoice to	SyncStatus Options 1 = Unsent 2 = Sending 2 = Sent 4 = Processed 5 = Errored

9.3.2. Optional Parameters

Name	Type	Description	Note
Error	String	Any text passed will be recorded against the invoice record	Details will be overwritten if subsequently updated

9.4. Retrieve financial docs with line items (without Sync) (Invoiceswithitemsbyperiod)

Customers who do not use any financial Integration may wish to retrieve details of invoices and line items without triggering any synchronisation updates or limiting the response with a synchronisation status

Will not return invoices which have been cancelled or deleted

9.4.1. Required Parameters

Name	Type	Description	Note
Action	String	invoiceswithitemsbyperiod	
Start	DateTime	Specifies the start date from which financial documents will be retrieved	Searches against the invoice creation date

End	DateTime	Specifies the end date to which financial documents will be retrieved	Searches against the invoice creation date
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9.5. Retrieving Quotations (Quotations)

9.5.1. Required Parameters

Name	Type	Description	Note
Action	String	Quotations	

9.5.2. Optional Parameters

Name	Type	Description	Note
Start	DateTime	Specifies the start date from which invoices will be retrieved	
End	DateTime	Specifies the end date to which invoices will be retrieved	

9.6. Retrieving Purchase orders or Quotations (TransactionWithItems)

A remote system will read this web service to retrieve purchase orders or quotations, where the transaction is marked as sent and the sync status is set to 1 – Unsent. JobWatch will set the Invoice Sync Status to “2 – Sending” and JobWatch expects the remote system to reply using the “[InvoiceSetStatus](#)” web service to update the JobWatch sync status for each invoice returned. If after a period of 5 minutes no status update is received the invoice will be reset to the status of 1 – Unsent

9.6.1. Required Parameters

Name	Type	Description	Note
Action	String	TransactionWithItems	
SyncStatus	Int	Retrieves Invoice details for specified status	SyncStatus Options 1 = Unsent 2 = Sending 2 = Sent 4 = Processed 5 = Errored
Type	Int	Specifies whether you are retrieving a purchase order or a quotation	Options 1 = Quote 4 = Purchase order

9.6.2. Optional Parameters

Name	Type	Description	Note
Start	DateTime	Specifies the start date from which invoices will be retrieved	
End	DateTime	Specifies the end date to which invoices will be retrieved	
V2	Int	1 = true	Additional parameter that when specified provides an alternative JSON output. The parameter also exposes the stock item stock code field and (if it is populated).

9.7. Retrieving a Financial Document (FinancialDoc)

This service returns detail of the Invoice document for the given Document Reference, Document Id or by Job Id.

- Using the Document Reference or Document Id will return a single document.
- Using the Job Id parameter can return multiple documents

9.7.1. Parameters

Name	Type	Description	Note
Action	String	Financialdoc	

docId	Int	Job Watch Document Id	The Document Id takes precedence over the Document Reference if both parameters are supplied
docRef	String	Job Watch Document Reference	
jobId	Int	Job Watch Job Id	Job Id takes precedence over Document parameters
includeCancelled	Bool	Instructs the API to include cancelled documents in the result	Default = false.
includeAllDocTypes	Bool	Allows the API to return invoice documents of all types – not just invoices	Default = false

9.8. Importing and updating nominal codes – POST (Importnominalcodes)

JobWatch provides services to add / update nominal codes used within the solution, together with services to delete existing nominal codes which are described later in this document

Nominal codes are made up of three distinct elements Account/Cost centre/and Department all three elements must be included in the webservice post data however the cost centre and account elements may be empty

Nominal codes in JobWatch are stored by concatenating Account cost centre and department separated by the / character if existing nominal codes are submitted they will update the existing record based upon the concatenated nominal code otherwise a new record will be added

9.8.1. Required Parameters

Name	Type	Description	Note
Action	String	ImportNominalCodes	

9.8.2. POST Data Parameters

Name	Type	Description	Note
Account	String(8)	Nominal code account	Required
Costcentre	String(3)	Nominal code cost centre	Field must be passed however empty field is acceptable
Department	String(3)	Nominal code department	Field must be passed however empty field is acceptable
Description	String(100)	Description associated with nominal code	Field must be passed however empty field is acceptable
Type	String(1)	Nominal Code Type	Normally "P" or "B" Field must be passed however empty field is acceptable
Reference	String(40)	Remote system Nominal code reference	Field must be passed however empty field is acceptable

9.9. Deleting Nominal Codes – (Deletenominalcode)

This service allows deletion of nominal codes using the similar parameters as the ImportNominalCodes service described above, Passing Account, Cost centre and department details which are then concatenated and used to lookup the code to be deleted

Note: Nominal Codes are not physically deleted but marked as deleted in the JobWatch solution

9.9.1. Required Parameters

Name	Type	Description	Note
Action	String	DeleteNominalCode	
Account	String(8)	Nominal code account	Required
Costcentre	String(3)	Nominal code cost centre	Field must be passed however empty field is acceptable
Department	String(3)	Nominal code department	Field must be passed however empty field is acceptable

9.9.2. Delete Nominal Code By Reference (Deletenominalcodebyref)

This service allows deletion of nominal codes using the Remote System Nominal code reference passed when the nominal code was imported to identify the record for deletion

Note: Nominal Codes are not physically deleted but marked as deleted in the JobWatch solution

9.9.3. Required Parameters

Name	Type	Description	Note
Action	String	DeleteNominalCodeByRef	
Reference	String(40)	Remote system Nominal code reference	Required

9.10. Importing and updating tax codes – POST (Importtaxcodes)

JobWatch provides services to add / update tax codes used within the solution, together with services to delete existing tax codes which are described later in this document. If existing Tax codes are submitted they will update the existing record based upon the code element otherwise a new record will be added

9.10.1. Required Parameters

Name	Type	Description	Note
Action	String	ImporttaxCodes	

9.10.2. POST Data Parameters

Name	Type	Description	Note
Code	String(10)	Tax code	Required
Rate	Decimal(5,2)	Tax code rate	Required
Description	String(100)	Description associated with nominal code	Field must be passed however empty field is acceptable
Reference	String(40)	Remote system Nominal code reference	Field must be passed however empty field is acceptable

9.11. Deleting Tax Codes (Deletetaxcode)

This service allows deletion of tax codes using the code element to lookup the tax code record to be deleted

Note: Tax Codes are not physically deleted but marked as deleted in the JobWatch solution

9.11.1. Required Parameters

Name	Type	Description	Note
Action	String	DeleteTaxCode	Required
Code	String(10)	Tax code	Required

9.11.2. Delete Tax Code By Ref (Deletetaxcodebyref)

This service allows deletion of tax codes using the Remote System tax code reference passed when the tax code was imported to identify the record for deletion

Note: Tax Codes are not physically deleted but marked as deleted in the JobWatch solution

9.11.3. Required Parameters

Name	Type	Description	Note
Action	String	deletetaxcodebyref	Required
Reference	String(40)	Remote system Tax code reference	Required

9.12. Pre-defined invoicing items (Predefinedinitems)

This service returns a list of pre-defined invoicing items, previously deleted items are not returned

9.12.1. Required Parameters

Name	Type	Description	Note
Action	String	predefinedinitems	Required

9.13. Updating financial document status (Updatefinancialdocstatus)

This service allows you to mark a financial document as sent or accepted

9.13.1. Required Parameters

Name	Type	Description	Note
Action	String	updatefinancialdocstatus	Required
<u>FinancialDocId</u>	Int	Financial document id to be updated	Required
<u>IsAccepted</u>	Bool	Send if document is to be marked as accepted	Required if IsSent not passed
<u>IsSent</u>	Bool	Send if document is to be marked as sent	Required if IsAccepted not passed

9.14. Generate financial doc for job (Generatefinancialdocforjob)

This service allows you to generate a financial document for a job, using financial lines previously added to the job (or a specified subset of financial lines previously added to the job)

9.14.1. Required Parameters

Name	Type	Description	Note
Action	String	GenerateFinancialDocForJob	Required
JobId	Int	Job Id targeted for financialdoc creation	Required
financialDocType	String	Type of financial document to be created	Must be one of : Quote Proforma Invoice PurchaseOrder CreditNote DeliveryNote AppPayment SalesOrder

9.14.2. Optional Parameters

Name	Type	Description	Note
siteId	Int	Contactid for site of invoice	If none passed contact for job is used
supplierId	Int	Contactid for supplier of goods on invoice	

accountId	Int	Id of bank account used	
docId	Int	Id of pre existing financial doc to update	See Note 1 below
nominalCodeId	Int	Id of invoice nominal code	
departmentCodeId	Int	Id of department code	
reference	String	Invoice Reference	
firstLine	String	Invoice first line text	
notes	String	Invoice notes	
InternalNotes	String	Invoice Internal notes	
delay	Int	Payment terms	i.e. 30 days pass 30
lineItemIds	String	Specifies which line items are added to the document	See Note 1 Below Pass line item ID's in a csv String format i.e. 1700965, 1700963
AddToGroup	Boolean	Adds the financial document to the group job (if present)	As default if parameter is not passed it will automatically add the document to the group job



To update existing financial documents the DocId and LineItemIds can be used in conjunction as below

- The lineItemIds only refer to line items added to the job in question
- Update Doc with All items logged on job: Pass a DocId but don't specify which items you want in the lineItemIds parameter. The service will remove all lines from the financial document then add all the lines logged on the job back into the doc
- Update Doc with some items logged against the job: Pass a DocId and specify which items you want in the lineItemIds parameter. The service will remove all lines from the doc and add back, only the lines specified in the lineItemIds from the job back into the financial document
- Create a New Financial Document with some items logged on the job: if you don't specify a DocId but include lineItemIds the specified lines will be added to a new financial Document
- Create a Financial document with all items logged against a job: If you don't include either DocId or LineItems a new financial document will be created with all the lines from the job

9.15. Job Financial Lines (JobFinancialLines)

This service allows you to retrieve financial lines which have been added to an existing job

9.15.1. Required Parameters

Name	Type	Description	Note
Action	String	JobFinancialLines	Required
JobId	Int	JobId of the job to retrieve financial lines	Required if jobref not passed
Jobref	String	Job reference of the job to retrieve financial lines	Required if jobId not passed

9.16. Add Job financial line (AddJobFinancialLine)

9.16.1. Required Parameters

Name	Type	Description	Note
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Action	String	addjobfinancialline	Identifies the service to be called
jobid	Int	Id of the job to associate the financial line with	Returned from Adding or editing a job
predefinedItemid	Int	ID of predefined invoice item to associate with job	Returned from Pre-defined invoicing items service
ItemType	Int	Specifies the line type to associate with job	Can be one of : <ul style="list-style-type: none"> • freetext • predefined (Itemid Required) • stock • drivingplanned • drivingactual • workplanned • workactual • expense
description	String(1000)	Description of the line to be associated with the job	
currencyCode	String	Currency of the line to be associated with the job	Can be one of : <ul style="list-style-type: none"> • AUD • BGN • CAD • CHF • CZK • DKK • EUR • GBP • HUF • ILS • LTL • LVL • MXN • NOK • PLN • RON • RUB • SEK • USD

9.16.2. Optional Parameters:

Name	Type	Description	Note
nominalCode	String	Nominal code to associate with financial line	If no code is passed the service will attempt to add the nominal code of 4001 if it exists within your JobWatch setup
departmentCode	String	Department code to associate with financial line	
cost	Double	Cost of the line item to associate with the job	Defaults to null if none passed

unitPrice	Double	Unit Price of the line item to associate job	Defaults to 0 if none passed
discountedPercentage	Double <=100	Discounted percentage of the line item to associate with the job	Must be <= 100
discountedValue	Double	Discounted value of the line item to associate with the sales opportunity	
quantity	Double	No of units	
vatRate	Double	Total including Tax payable on job	Generally calculated from financial lines added when a document is created
includeDefaults	Bool	Include Unsaved Invoice Rates in return	

9.17. Delete Financial Line (Deletefinancialline)

This service Deletes a financial line for a given ID (returned from JobFinancialLines above)

9.17.1. Required Parameters

Name	Type	Description	Note
action	String	DeleteFinancialLine	
LineId	Int	The JobWatch financial line Id	

9.18. Send a Financial Document (Financialdocsend)

This service allows you to send a Financial Document to the Contacts' primary person on the financial document.

9.18.1. Required Parameters

Name	Type	Description	Note
action	String	FinancialDocSend	
docId	Int	The JobWatch financial document Id	If both DocId and DocRef is supplied, docId will take precedence – only one parameter is required
docRef	String		

9.19. Create a JobWatch payment POST (AccountReceiptSave)

This service creates a payment against an invoice in JobWatch. The service will remove any existing payments and it will replace the payment with a single line based on the value specified in the Net Amount. The service requires a JSON payload containing the below field and values.

9.19.1. Required Parameters

Name	Type	Description	Note
action	String	AccountReceiptSave	
AccountRef	String	The contacts account reference located in CRM => Financial => Terms	This is a validation field only to confirm that the contacts account reference exists.

Date	String	The date of the payment	
TaxCode	String	The tax code of the payment	
NetAmount	Double	The net amount of the payment value	
TaxAmount	Double	The tax amount of the payment value	
InvoiceRef	String	The invoice reference of JobWatch	
PaymentRef	String	The payments reference	

9.20. Find a pre-defined Item (findpredefinedinvitem)

This service returns the pre-defined item based on the reference supplied.

9.20.1. Required Parameters

Name	Type	Description	Note
Action	String	findpredefinedinvitem	
Reference	Int	The reference of the pre-defined item	

9.21. Create or Update a pre-defined Item (createpredefinedinvitem)

This service uses the pre-defined items reference to create or update an existing a new pre-defined item in JobWatch.

9.21.1. Required Parameters

Name	Type	Description	Note
Action	String	createpredefinedinvitem	
Reference	Int	The pre-defined item's reference number	
Description	String	The pre-defined item's description	
UnitPrice	Double	The pre-defined item's selling price	
Vat	String	The pre-defined item's vat code	

9.21.2. Optional Parameters

Name	Type	Description	Note
NominalCode	String	The pre-defined item's nominal code	
DepartmentCode	String	The pre-defined item's department code	
DefaultCurrency	String	The pre-defined item's default currency	
DefaultCost	Double	The pre-defined item's unit cost setting	
DefaultVat	Double	The pre-defined item's default vat amount	
RecurringPayment	Bool	The pre-defined item's recurring payment setting	
OnBookingSite	Bool	The pre-defined item's on booking site setting	

9.22. Delete a pre-defined Item (deletepredefinedinvitem)

This service deletes a pre-defined item in JobWatch by marking the item as deleted. The user must pass one of the two required parameters which will remove the item from the pre-defined item drop down list.

9.22.1. Required Parameters

Name	Type	Description	Note
Action	String	deletepredefinedinvitem	
InvoiceDefaultId	Int	The pre-defined item id	
InvoiceDefaultReference	String	The reference of the pre-defined item	

9.23. Returns list of payments based on status (payments)

This service returns a list of payments that have been made against JobWatch Invoices within a given date range for a given status. Where the payment syncstatus is set to 1, the routine changes the status of the payment to 2 (“sending”) for a short period. This process enables users to process the payment and update the status using the web service paymentsetstatusbyid. Where the payment status is not updated, the syncStatus is changed back to 1. See web service [paymentsetstatusbyid](#).

9.23.1. Required Parameters

Name	Type	Description	Note
Action	String	payments	
SyncStatus	Int	The status of the transaction	The sync status of the transaction is a Integer and represents: 1 = Unsent 2 = Sending 2 = Sent 4 = Processed 5 = Errored
Start	String	The start date of the payments to be retrieved	The start date of the payments to retrieve.

9.23.2. Optional Parameters

Name	Type	Description	Note
End	String	The end date of the payments to be retrieved	If not specified, the payment date defaults to the current day at 23:59:59.
V2	Int	Adds the option to return additional parameters that are used as part of financial Integrations	Returns the parents account contact reference. Location in CRM=>Financial=>Terms.

9.24. Change Payment Status (paymentsetstatusbyid)

This web service modifies a payments status by the passing in the payment id.

9.24.1. Required Parameters

Name	Type	Description	Note
Action	String	paymentsetstatusbyid	
SyncStatus	Int	The status of the transaction to change	1 = Unsent 2 = Sending 2 = Sent 4 = Processed 5 = Errored

PaymentId	Int	The id of the payment to change status	
Error	String	The error message associated with the payment failure	This is added to the payment where it fails to process (status 5)

9.25. PaymentsList (paymentslist)

This service returns a list of JobWatch payments within on a given date range. An optional parameter can be used to pass the syncStatus so a user can list payments by a specific status, i.e. "sent", "sending", "processed" or have "failed".

9.25.1. Required Parameters

Name	Type	Description	Note
Action	String	paymentslist	
Start	String	The start date of the payments to be retrieved	The start date of the payments to retrieve.

9.25.2. Optional Parameters

Name	Type	Description	Note
End	String	The end date of the payments to be retrieved	If not specified, the payment date defaults to the current day at 23:59:59.
SyncStatus	Int	The status of the transaction	The sync status of the transaction is a Integer and represents: 1 = Unsent 2 = Sending 2 = Sent 4 = Processed 5 = Errored

9.26. TrackingOptions (trackingoptions)

This service works in conjunction with the Xero integration and returns a list of tracking categories/options

9.26.1. Required Parameters

Name	Type	Description	Note
Action	String	trackingoptions	

9.27. Currencies (Currencies)

This service works returns a list of the predefined JobWatch currencies

9.27.1. Required Parameters

Name	Type	Description	Note
Action	String	Currencies	This method returns the predefined Job Watch currency codes.

10. Sales Opportunities Probabilities (Salesopportabilities)

This service returns a list of all sales opportunity probabilities for the current user. Each entry will show Name and ID

10.1.1. Required Parameters

Name	Type	Description	Note
Action	String	salesopportabilities	Required

10.2. Sales Opportunity Stages (Salesopstages)

This service returns a list of all sales opportunity stages for the current user. Each entry will show Name and ID

10.2.1. Required Parameters

Name	Type	Description	Note
Action	String	salesopstages	Required

10.3. Sales Opportunity Statuses (Salesopstatuses)

This service returns a list of all sales opportunity statuses for the current user. Each entry will show Name and ID

10.3.1. Required Parameters

Name	Type	Description	Note
Action	String	salesopstatuses	Required

10.4. Delete Sales Opportunity (SalesOpDelete)

This service marks a sales opportunity as deleted for the Given Sales Opportunity ID

10.4.1. Required Parameters

Name	Type	Description	Note
action	String	SalesOpDelete	
salesOpportunityId	Int	The JobWatch Sales Opportunity Id	

10.5. Adding sales opportunity financial line (Addsalesoppfinancialline)

10.5.1. Required Parameters

Name	Type	Description	Note
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Action	String	addsalesoppfinancialline	Identifies the service to be called
salesOpportunityid	Int	Id of the sales opportunity to associate the financial line with	Returned from Adding or editing a sales opportunity
predefinedItemid	Int	ID of predefined invoice item to associate with sales opportunity	Returned from Pre-defined invoicing items service
ItemType	Int	Specifies the line type to associate with sales opportunity	Can be one of : <ul style="list-style-type: none"> • freetext • predefined (Itemid Required) • stock • drivingplanned • drivingactual • workplanned • workactual • expense
description	String(1000)	Description of the line to be associated with the sales opportunity	
currencyCode	String	Currency of the line to be associated with the sales opportunity	Can be one of : <ul style="list-style-type: none"> • AUD • BGN • CAD • CHF • CZK • DKK • EUR • GBP • HUF • ILS • LTL • LVL • MXN • NOK • PLN • RON • RUB • SEK • USD

10.5.2. Optional Parameters

Name	Type	Description	Note
nominalCode	String	Nominal code to associate with financial line	If no code is passed the service will attempt to add the nominal code of 4001 if it exists within your JobWatch setup
departmentCode	String	Department code to associate with financial line	

cost	Double	Cost of the line item to associate with the sales opportunity	Defaults to null if none passed
unitPrice	Double	Unit Price of the line item to associate with the sales opportunity	Defaults to 0 if none passed
discountedPercentage	Double <=100	Discounted percentage of the line item to associate with the sales opportunity	Must be <= 100
discountedValue	Double	Discounted value of the line item to associate with the sales opportunity	
quantity	Double	No of units	
vatRate	Double	Total including Tax payable on sales opportunity	Generally calculated from financial lines added when a document is created

10.6. Adding or editing a sales opportunity (Salesopportunity)

Should be used in conjunction with the add sales opportunity financial line service

10.6.1. Required Parameters

Name	Type	Description	Note
Action	String	salesopportunity	Identifies the service to be called
SalesOpportunityContactId	Int	Contact ID of contact to associate Sales opportunity with	Contact ID's can be retrieved using services described in the contact service section above
SalesOpportunitySOSTageId	Int	Stage ID to set against sales opportunity	Valid Stage ID's can be accessed using the salesopstages service detailed above
SalesOpportunityProbabilityId	Int	Probability ID to set against sales opportunity	Valid Probability ID's can be accessed using the salesopprobabilities service detailed above
SalesOpportunityTitle	String(50)	Provides a title for the sales opportunity	
SalesOpportunityStatus	String	Status to set against sales opportunity	Valid statuses' can be accessed using the salesopstatuses service detailed above

10.6.2. Optional Parameters

Name	Type	Description	Note
SalesOpportunityId	Int	Pass the ID of an existing sales opportunity if you wish to update an existing sales Opportunity	If you pass a SalesOpportunityID of a sales opportunity which does not exist a new sales opportunity will not be added
SalesOpportunityReference	String	Pass the Reference of an existing sales opportunity if	

		you wish to update an existing sales Opportunity	
SalesOpportunityNote	String(3000)	Description of sales opportunity	
SalesOpportunityCompletionNote	String(3000)	Sales Opportunity completion details	
SalesOpportunityCloseDateTime	DateTime	Specifies the Due Date for the sales opportunity	Must be in format: yyyy-MM-dd
SalesOpportunityCurrency	String - Currency Code	Should be a valid currency code	If none passed defaults to "GBP"
SalesOpportunityCost	Double	Cost of sales opportunity	Generally calculated from financial lines added when a document is created
SalesOpportunityTotalExclTax	Double	Total Before Tax payable on sales opportunity	Generally calculated from financial lines added when a document is created
SalesOpportunityTotalInclTax	Double	Total including Tax payable on sales opportunity	Generally calculated from financial lines added when a document is created
cust_customFieldName	String(500)	Additional custom fields created for Sales Opportunities.	Replace customFieldName with the name of the custom field as it appears on the Sales Opportunities page. Multiple custom field parameters may be added to the request.
SalesOpportunityOwnerId	Int	Pass the ID of an existing user, to assign the ID and name to this opportunity	If no user exists with the specified ID, the details will be taken from the credentials of who called the webservice.
SalesOpportunityContactUserId	Int	Pass the ID of an existing contact user to assign a contact user to the opportunity	
SalesOpportunityContactReference	String	Contact Reference of contact to associate Sales opportunity with	

10.7. A list of sales opportunities (SalesOpportunityList)

This web service will return a full list of all sales opportunities if passing in none of the filters below.

10.7.1. Required Parameters

Name	Type	Description	Note
Action	String	SalesOpportunityList	Identifies the service to be called

10.7.2. Optional Parameters

Name	Type	Description	Note
Reference	String	The sales opportunity reference	
CreatedFrom	DateTime	The date the sales opportunity was created	If specifying created from, you must also include created to
CreatedTo	DateTime	The date the sales opportunity was created	If specifying created to, you must also include created from
ClosedFrom	DateTime	The date the sales opportunity was closed	
ClosedTo	DateTime	The date the sales opportunity was closed	
SalesStatus	String	The sales status	<ul style="list-style-type: none"> • New • OnHold • CompletedWon • CompletedLost
SalesStage	String	The sales stages that have been defined in JobWatch	This is a the name of the sales stage that you have setup in JobWatch
SalesProbability	String	The sales probability that have been defined in JobWatch	
ContactGroupld	Int	The contact group id	
Contactld	Int	The contact id	
Ownerld	Int	The owner id used to create the sales opportunity	
StartRow	Int	The page start	
RowCount	Int	The number of sales opportunities	
SortCol	String	The sorting column	Defaults to the salesOpportunityld
SortDir	String	The sorting direction	Defaults to ASC
ResultCount	Int	The total number of rows	
Includecustomfields	Bool	If set to true, the sales opportunities will include all custom fields	Defaults to false

11. Web User Service

11.1. List web users (Webuserlist)

This service returns a list of all web users accessible by the current user. Each entry will show name and email address.

11.1.1. Required Parameters

Name	Type	Description	Note
Action	String	webuserlist	Required

11.1.2. Optional Parameters

Name	Type	Description	Note
returncustomfields	Bool	If set will return any custom field values	Optional

11.2. Add web user to the system (Webusersave)

This service allows creation or update of a web user. Matching is tried on email address.

11.2.1. Required Parameters

Name	Type	Description	Note
Action	String	webusersave	Required
WebUserName	String		Required
WebUserEmail	String		Required
WebUserPwd	String	password	Required
UserMobile	String		
Position	String		
UserIPRestriction	String		
JobCategoryId	Int	If you require your user to be in a certain group, you can use the Id of the group from the Job Group page to set the default job category.	
JobCategoryDescription	String	If you require your user to be in a certain group, you can take the name of the group from the Job Group page to set the default job category.	
UserType	Int		Active = 1, Inactive = 2, Integration = 3, LinkedResource = 4
UserGroupDescription	String	If you require your user to be in a certain group, you can input the name of the group from the User Group page, Into this parameter to set the usergroup	
UserGroupId	Int	If you require your user to be in a certain group, you can take the Id of the group from the User Group page Into this parameter to set the usergroup	

UserRoleId	Int	If you require your user to have a certain role, you can request Ids from BigChange that you can use to set the userrole.	
UserRoleDescription	String	If you'd prefer, you can use the name of the role instead, to set the user role.	

11.2.2. Optional Parameters

Name	Type	Description	Note
cust_customFieldName	String(500)	Additional custom fields created Web Users	Replace <code>customFieldName</code> with the name of the custom field as it appears on the Web Users page. Multiple custom field parameters may be added to the request.

11.3. Remove web user from the system (Webuserdelete)

This service allows deletion of a web user. Matching is on email address.

11.3.1. Required Parameters

Name	Type	Description	Note
Action	String	<code>webuserdelete</code>	Required
WebUserEmail	String		Required

11.4. List User Roles (UserRoles)

This service lists out all current user roles configured for your jobwatch site.

11.4.1. Required Parameters

Name	Type	Description	Note
Action	String	<code>userroles</code>	Required

11.5. List User Groups (UserGroups)

This service lists out all current user groups configured for your jobwatch site.

11.5.1. Required Parameters

Name	Type	Description	Note
Action	String	<code>usergroups</code>	Required

12. Cross Service Functions

12.1. List tags for jobs or contact notes (Tags)

12.1.1. Tags

This service allows you to list tags available to add to a job or contact note.

12.1.2. Required Parameters

Name	Type	Description	Note
Action	String	Tags	Required

12.1.3. Optional Parameters

Name	Type	Description	Note
Type	String	Limits tags returned to given tag type	Types are 'Job' or 'ContactUser' case sensitive

12.2. Returns a list of tags by history (TagHistory)

The tag history service returns a list of tags assigned to an entity based on entitytypeid and a list of one or more entityids that are assigned to the type. The output returns the tag and its details.

12.2.1. Required Parameters

Name	Type	Description	Note
Action	String	TagHistory	Required

12.2.2. Optional Parameters

Name	Type	Description	Note
Format	String	json, xml, csv	If not passed default format of json is returned
TagEntityTypeId	Int	The entity type id	Tag Entity Types: <ul style="list-style-type: none"> • ContactNote = 2 • Job = 3 • DefInvoiceItem = 8 • ContactUser = 9 • SalesOpportunity = 10 • ContactNotePriority = 14 • AssetDefect = 15 • Quote = 21 • Proforma = 22 • Invoice = 23 • PurchaseOrder = 24 • CreditNote = 25 • DeliveryNote = 26 • AppPayment = 27 • SalesOrder = 28

TagEntityIds	Int	A list of entity Ids	For multiple Ids, each tag entity Id must be separated by a comma. The routine will ignore any TagEntityId that does not match the entity type Id, invalid format or does not exist.
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12.3. Add tags to jobs, contact notes, contact user or sales opportunities (Settag)

This service allows addition of tags to the job or contact note.

12.3.1. Required Parameters

Name	Type	Description	Note
Action	String	SetTag	Required
EntityId	String	Entity ID	Required Error returned if Entity doesn't exist
Tagid	String	Tag ID	Required Error returned if Tag doesn't exist
EntityType	String	Entity Type	Required, Can be "job", "contactnote" or "contactuser" or "salesopportunity" only. N.B. Processing for "contactuser" not yet implemented.
DateTime	DateTime	Date used when logging tag history	
Comment	String		

12.4. Delete tag History from jobs, contact notes, contact user or sales opportunities (TagHistoryDelete)

This service allows deletion of tags.

The TagHistoryID can be retrieved using the TagHistory service

12.4.1. Required Parameters

Name	Type	Description	Note
Action	String	TagHistoryDelete	Required
TagHistoryID	String	Tag ID to delete	Required TagHistoryID can be retrieved using the TagHistory service

12.5. Set Contact Person Tag (contactpersonsettag)

This webservice allows you to set the tags on a Contact Person.

12.5.1. Required Parameters

Name	Type	Description	Note
Action	String	contactpersonsettag	
tagId	Int	The Id of the tag to be saved on the contact person	<ul style="list-style-type: none">Multiple tags can be setTo set multiple tags, list them with a comma, eg: 21342,248724,872382
contactUserId	Guid	The contact user id of the contact person	
contactId	Int	If used, this parameter will update the main person at a contact	

12.6. Remove Contact Person Tag (ContactPersonRemoveTag)

This webservice allows you to remove tags on a Contact Person.

12.6.1. Required Parameters

Name	Type	Description	Note
Action	String	ContactPersonRemoveTag	
tagId	Int	The Id of the tag to be removed on the contact person	<ul style="list-style-type: none">Multiple tags can be setTo set multiple tags, list them with a comma, eg: 21342,248724,872382
contactUserId	Guid	The contact user id of the contact person	
contactId	Int	If used, this parameter will update the main person at a contact	

12.7. List Attachments (Attachments)

12.7.1. Attachments

This service lists information about any attachments to the requested Entity

12.7.2. Required Parameters

Name	Type	Description	Note
Action	String	attachments	
Type	String	Entity Type	The entity type: <ul style="list-style-type: none">ContactJobInvoiceStockItemContactNoteAssetResourceResourcePhotoSalesOpportunity

			<ul style="list-style-type: none"> • Stock • Contract • WorksheetAnswer • Expenseltem • Defect • JobGroup
EntityId	String	Entity Id – for example, when using the Contact type, this would be the ContactId	Entity Id takes precedence over Entity Reference if both parameters are supplied
EntityRef	String	Entity Reference – for example, when using the Contact Type, this would be the Contact Reference	

12.8. Retrieve an Attachment (Downloadattachment)

This service retrieves an Attachment using an AttachmentId (which can be retrieved using ListAttachments)

12.8.1. Required Parameters

Name	Type	Description	Note
action	String	downloadattachment	
attachmentId	String	The 'id' of the Attachment to be retrieved	Use " attachments " to retrieve document id's

12.9. Job Card Url (Jobcardurl)

This service returns the URL to enable viewing of Job Card

12.9.1. Required Parameters

Name	Type	Description	Note
Action	String	Jobcardurl	
jobId	Int	Job Id	
sortBy	Int	Using this parameter, you can sort through the list of attachments on the job, to return the data either by date or by name. If you do not use this parameter, the list will default to sorting by name.	1 = date, 2 = name

12.10. Job Card Download (Jobcarddownload)

This service generates and returns a copy of the Job Card for the given Job Reference or Job Id.

- The Job Card is generated in real-time.
- The Job Card is **not** attached to the Job in Job Watch

12.10.1. Required Parameters

Name	Type	Description	Note
action	String	jobcarddownload	
jobId	Int	Job Id	Job Id takes precedence over Job Reference if both parameters are supplied

jobRef	String	Job Reference	
jobCardId	Int	JobCard Id	Pass 0 to return customer's default job card. Useful when the job's type has a default job card and you want the customer's default job card
reportTemplateId	Int	Custom Job Card template	Template Id of a custom job card to be used. Overridden by jobCardId
attachToJob	Bool	Automatically attach the job card to the job after it has been created	
jobCardName	String	Name to be given to the job card	Default is Job Card xxxx where xxxx is the job id.
MatchNameCase	Bool	Retain the case of the supplied name	If true, the job card name will be as supplied. If false it will be converted to lower case. Defaults to 'false' if the parameter is not supplied.

12.11. Invoice Download (Invoicedownload)

This service generates and returns a copy of the Invoice Document for the given Invoice Reference or Invoice Id.

- The Invoice Document is generated in real-time.
- The Invoice is **not** attached to Job Watch documents

12.11.1. Required Parameters

Name	Type	Description	Note
Action	String	invoicedownload	
invoiceld	Int	Job Id	Invoice Id takes precedence over Invoice Reference if both parameters are supplied
invoiceRef	String	Job Reference	

12.12. List worksheet questions (Worksheetandquestions)

This service lists all current (Not Deleted) Questions and their associated worksheets, useful to build a spreadsheet to filter by worksheet if csv format is returned

12.12.1. Required Parameters

Name	Type	Description	Note
Action	String	worksheetsandquestions	

12.12.2. Optional Parameters

Name	Type	Description	Note
Format	String	json, xml, csv	If not passed default format of json is returned

12.13. List templates (Templatelist)

This service returns a detailed list of all templates on a site.

12.13.1. Required Parameters

Name	Type	Description	Note
Action	String	TemplateList	

12.13.2. Optional Parameters

Name	Type	Description	Note
Format	Int	Adds text passed as a comment on the targeted defect	“Formats”: “1”: “Email”, “2”: “PDF”, “3”: “SMS”
UsageType	Int	Filters templates list by usage type	“UsageTypes”: “0”: “Unused”, “1”: “JobConfirmation”, “2”: “JobCard4Job”, “3”: “Invoice”, “4”: “Wiki”, “5”: “InvOutstanding”, “6”: “NoteCard”, “7”: “JobCard4JobGroup”, “8”: “Note”, “9”: “Contract”, “10”: “JobAttach”, “11”: “JobWorksheet”, “12”: “NoteWorkflow”, “13”: “AlertEmail”, “14”: “AlertSMS”, “15”: “QuoteAcceptance”
Abbreviated	Bool	Default True. Hides other information, such as LetterFooterHeight etc	True or false

12.14. Get Notes by Entity Type (GetNotes)

This service returns a detailed list of all templates on a site.

12.14.1. Required Parameters

Name	Type	Description	Note
Action	String	GetNotes	
Entity Type	Int	Selects the entity type of the notes you wish to view. For example, selecting 1 will show you notes from a contact.	“EntityType”: “1”: “Contact”, “2”: “Job”, “3”: “StockItem”, “4”: “Resource”, “5”: “Asset”, “6”: “SalesOpportunity”
EntityId	Int	This is the Id of the entity you’d like to view the notes of. This must match the entity type. For	

		example, if you select entity type 1, then the entity id MUST be a contact id.	
EntityReference	String	This is the reference of the entity you'd like to view the notes of. This must match the entity type. For example, if you select entity type 1, then the entity reference MUST be a contact reference.	
ResourceGroupId	Int	If you'd like to search for notes attached to resources in a certain ResourceGroup, there is an option to use ResourceGroupId or ResourceGroupReference	The EntityType parameter must be 4 when searching by ResourceGroupId.
ResourceGroupReference	String		The EntityType parameter must be 4 when searching by ResourceGroupReference.

12.14.2. Optional Parameters

Name	Type	Description	Note
flagHistory	String	Includes a list of the contact note flags recorded in the result if set to 1	Optional parameter, if omitted no flag history returned
IncludeCustomFields	Bool	returns the customfields for the contact if set to 1	Optional parameter, if omitted no custom fields return

12.15. Add comment to dialogue (commentsave)

This service allows you to add a comment to a note or dialogue in JobWatch.

12.15.1. Required Parameters

Name	Type	Description	Note
Action	String	commentsave	
Entity Type	Int	Set the entity type of the Item you want to attach the comment to Not all entity types can associate a comment. Current valid types are listed in the notes	"EntityType": "1": "Note" "2": "Asset Defect"
EntityId	Int	This is the Id of the entity you'd like to associate the comment with. This must match the entity type. For example, if you select entity type 1, then the entity id MUST be a Note Id.	
NoteComment	String		

12.15.2. Optional Parameters

Name	Type	Description	Note
CreationDateTime	DateTime	sets the Creation DateTime of the Comment/Dialogue	

Mentions	Bool	Where set to true, the web service will add mentions to the new comment – this includes previous mentions (where set) and UserIds (where set)	
PreviousMentions	Bool	When set to true, the integration will add the previous mentions from the previous note, where they exist.	
UserIds	Int	A list of JobWatch UserIds separated by a comma	
Reaction	String	A reaction assigned to the note	Current list of reactions <ul style="list-style-type: none"> • Like • Heart • Applause • Dislike

12.16. Add Attachments (AddAttachments)

This service allows you to POST attachments to Jobwatch which can be associated with a selected entity type

12.16.1. Required Parameters

Name	Type	Description	Note
Action	String	addattachments	
Entity Type	Int	Set the entity type of the Item you want to attach the file to Not all entity types can associate an attachment. Current valid types are listed in the notes field	“EntityType”: “1”: “Job” “4”: “Expense Item” “5”: “Contact Note” “13”: “Contact” “17”: “SalesOpportunity”
EntityId	Int	This is the Id of the entity you’d like to associate the file attachment. This must match the entity type. For example, if you select entity type 1, then the entity id MUST be a JobId.	

12.16.2. Post Body Parameters

Name	Type	Description	Note
Files	multipart MIME format		
attachments	Json object	A serialised String containing details of the file uploaded with the following variables String Filename String Type bool ConvertToPdf bool Compressed	Example <pre>[[{Filename: '20190424_155521.jpg', Type: 'image/jpg', ConvertToPdf: false, Compressed: false}]]</pre>

12.16.3. Optional Parameters

Name	Type	Description	Note
RollbackOnFailedAttachment	Bool	if true, operation will be rolled back if any unsafe file is detected or any PDF conversion fails	

12.17. Automation Mappings (automationmappings)

The automation mappings uses the JobWatch automations to return a list of mappings that have been created in the automations list where the direction has been set to inbound.

Name	Type	Description	Note
Action	String	automationmappings	

12.18. Automation Inbound Service Fields (automationinboundservicefields)

The automation inbound service fields returns all service fields that have been created by type in the automation. Optionally users may wish to specify the servicefieldid to return a single service field.

Name	Type	Description	Note
Action	String	automationinboundservicefields	

12.18.1. Optional Parameters

Name	Type	Description	Note
servicefieldid	Int	The Id relating to the service	

12.19. Automation Inbound Service Fields (automationinboundmapping)

The automation inbound mapping returns all automation inbound mappings that have been created to support the automation. Optionally users may wish to specify the automationmappingid to return a single mapping.

Name	Type	Description	Note
Action	String	automationinboundmapping	

12.19.1. Optional Parameters

Name	Type	Description	Note
Automationmappingid	Int	The Id relating to the mapping	

13. Asset Checks / Defects – (Assetcheck)

It is possible to set up a callback service which will notify you automatically when an Asset Check has been undertaken, this service requires that a customer webservice is built to receive and process callback notifications. Development of a webservice to receive and process callbacks is not a service which BigChange provides and will require development effort on customer systems.

If you wish to commission a callback service as detailed above, contact your Customer Success Manager to discuss your requirements

13.1. Retrieve an asset Check (Assetcheck)

This service returns details of a single asset check (Vehicle check)

13.1.1. Required Parameters

Name	Type	Description	Note
Action	String	assetcheck	
checkid	Int	Integer value returned from a asset check callback service	

13.2. Updating a defect (Updatedefect)

This service returns allows you to update a defects comment, Actioned flag and Archived Status

13.2.1. Required Parameters

Name	Type	Description	Note
Action	String	UpdateDefect	
defectid	Int	Integer value returned from an assetcheck webservice	

13.2.2. Optional Parameters

Name	Type	Description	Note
defectcomment	String(250)	Adds text passed as a comment on the targeted defect	
MarkAsActioned	Bool	Marks the targeted defect as Actioned	True or 1 – sets the Actioned Timestamp to the current DateTime
MarkAsArchived	Bool	Marks the Targeted defect as Archived	True or 1

14. Assets

API methods for interacting with JobWatch Asset Management

14.1. Adding or editing an asset (AssetSave)

This method adds or updates assets. Job Watch will retain existing values when updating existing assets and the parameters have been omitted

14.1.1. Required Parameters

Name	Type	Description	Note
Action	String	AssetSave	
AssetId	Int		
AssetRegistration	String		
AssetType	Int/String	The type of asset to be created	Parameter can be either the "int" or "string value" where: <ul style="list-style-type: none"> 1 = Vehicle 2 = Trailer
VehicleType	Int/String		Use method 'VehicleTypes' for supported values
GroupId	Int	Group Id	Provided either the Group Id or Group Name. Atleast one must be provided when creating an asset.
GroupName	String	Group Name	
Make	String		
Model	String		
Year	Numeric		
OdometerUnit	String		String to represent the Odometer where: <ul style="list-style-type: none"> mi = miles (default) km = kilometer
AssetReference	String		
UsedForJobs	Bool		
ResourceId	Int	ID of the fixed resource (if required)	Provide the ResourceID or ResourceReference to associate a fixed resource.
ResourceReference		Reference of the fixed (resource)	
CostPerKm	decimal		
CostPerMileCurrency	String		
CostPerDay	Decimal		
CostPerDayCurrency	String		
Co2	double		Not implemented - provided for future support
IdlingFuelConsumption	double		Not implemented - provided for future support

Attributes	<id,date>		AttributeId,AttributeDate - use method 'Attributes' for support values. Multiple instances of the parameter can be provided
WorksheetsForVehicleChecks			Not implemented - provided for future support
VehicleTypeForDefects			Not implemented - provided for future support
MaxRPM	Short		
IconName	string	Default icon name is "rig"	Use method 'AssetIcons' for supported values
CustomFields			

 Please note, at minimum the parameters "Street", or the coordinates ("Lat" & "Lng") are required.

14.1.2. Optional Parameters:

Name	Type	Description	Note
contactGroup	String(50)	Name of the contact group	If the group doesn't already exist it will be created automatically
contactParentReference	String(40)	Reference you use in your system to identify contact's parent	
contactParentId	int	Internal Jobwatch ContactParentID	Returned from various contact webservices
contactReference	String(40)	Key you use in your system to identify the contact	
contactId	Int	Internal jobwatch contact reference	Returned from various contact webservices
contactStreet	String(100)	Address information	If you have your address information in one whole String you could only specify the parameter "Street"
contactPostcode	String(10)	Postcode	
contactTown	String(100)	Town	
contactCountry	String(50)	Country	
contactLat	Double	Latitude	
contactLng	Double	Longitude	
contactRadiusMeter	Int	Radius in meter	
ContactPerson	String(30)	Person you are in touch with at the contact	
ContactPhone	String(30)	Phone number of the person working at that contact	Must be in International format. No space E.g. +447954012012 Please ensure you encode the Phone Number.
ContactEmail	String(100)	Email of that person	
ContactExtra	String(255)	Any extra bit of info you want to save	
ContactReplaceSameRef	Int	If =1, a contact already in our database with the specified reference will be updated with the new info	1 or 0. Default 0
cust_customFieldName	String	Additional custom fields created for each contact group	Replace customFieldName with the name of the custom field as it appears on the contact details page.

			Multiple custom field parameters may be added to the request.
ContactFirstName	String	First name of the contact	
ContactLastName	String	Last name of the contact	
ContactAccountReference	String	The financial account reference	
ContactAccountType	Int		
ContactExtraUpdate	Int	Update contact's extra info	
CreditLimit	String	Contact's credit limit	
CreditLimitCurrency	String	Currency of the credit limit	
ContactExtraDelay2Pay	String	An extra parameter for Delay2Pay	
ContactOnStop	int	Pass the relevant integer value to set the resultant contacts on stop status	ContactOnStop values 0 = None , 1 = OnStop , 2 = Credit Limit On Stop
ContactOnStopReason	String	Contact On Stop Reason	Sets the ContactOnStop Reason
ContactWhat3Words	String	Set location using What3Words	Will over-write any polygon data, and replace with a radius (default or supplied)

 The contactGroup parameter must be supplied if custom fields are included in the request.

14.2. Retrieve all Assets (AssetsI)

This service lists all resources, with the option of providing an asset group as a filter.

14.2.1. Required Parameters

Name	Type	Description	Note
Action	String	Assets	
AssetGroup	Int	Asset Group Id	Optional – this parameter was misspelt previously. The incorrect spelling has been removed from the documentation but is still supported for backward compatibility Asset Group Id's can be retrieved using AssetsGroups
IncludeCustomFields	Bool	Parameter to toggle custom fields	Optional – set this parameter to 1 if you would like to see custom fields attached to the asset

14.3. Get individual Asset detail (AssetDetail)

This method returns detail for a specific Asset.

14.4.2. Required Parameters

Name	Type	Description	Note
Action	String	AssetDetail	

AssetId	Int	Asset Id	Asset Id, AssetRegistration or AssetReference must be specified AssetId takes precedence over other fields
AssetRegistration	String	Asset Registration	AssetRegistration takes precedence over AssetReference if also supplied
AssetReference	String	Asset Reference	

14.4.3. Optional Parameters

Name	Type	Description	Note
IncludeCustomFields	Bool	Include custom fields for the Asset	Optional parameter, if omitted custom fields are not included

14.5. Associate Asset and Resource (AssetAddResource)

14.7.2. Required Parameters

Name	Type	Description	Note
Action	String	AssetAddResource	
Assetid	Int	Asset Id	Id or Reference must be specified
Assetreference	String	Asset Reference	See above
Resourceid	Int	Resource Id to be associated	Id or Reference must be specified
Resourcereference	String	Resource Reference to be associated	See above

14.8. Disassociate Asset and Resource (AssetRemoveResource)

14.8.1. Required Parameters

Name	Type	Description	Note
Action	String	AssetRemoveResource	
Assetid	Int	Asset Id	Id or Reference must be specified
AssetReference	String	Asset Reference	See above

14.9. Asset Open Defect by Id or Registration (AssetOpenDefects)

14.9.1. Required Parameters

Name	Type	Description	Note
Action	String	AssetOpenDefects	
Assetid	Int	Asset Id	Id or Reference must be specified
AssetRegistration	String	Asset Reference	See above

14.10. List Asset Groups (AssetsGroups)

This service returns a list of asset groups -

14.10.1. Required Parameters

Name	Type	Description	Note
Action	String	AssetsGroups	Can also be called using "AssetGroups"

14.10.2. Optional Parameters

Name	Type	Description	Note
IncludeCustomFields	Bool	Include custom fields for the Job	Optional parameter, if omitted custom fields are not included

14.11. List Vehicle Types (VehicleTypes)

This service returns a list of vehicle types

14.11.1. Required Parameters

Name	Type	Description	Note
Action	String	VehicleTypes	Vehicle Types are a pre-defined list in JW – this method is provided so API developers can retrieve the values as this is a required parameter on AssetSave

14.12. List Asset Icons (AssetIcons)

This service returns a list of asset icons

14.12.1. Required Parameters

Name	Type	Description	Note
Action	String	AssetIcons	Asset Icons are a pre-defined icons in in JW which can be selected when creating an Asset – this method is provided so API developers can retrieve the Icon name values as this is a required parameter on AssetSave

15. Resources

This service lists all resources, with the option of providing a resource group.

Name	Type	Description	Note
Action	String	Resources	
ResGrp	Int	Resource Group ID	Optional

15.1.1. Retrieving Resource Details (ResourceDetail)

15.1.2. Required Parameters

Name	Type	Description	Note
action	String	ResourceDetail	One of the following parameters must be supplied to return any matching Resource.
resid	Int	The JobWatch Resource Id	Same as supplied by the Resources query above
resreference	String	Customer supplied Resource reference	Supplied by the customer when a Resource is created or entered on the Resource details on the web.
rescode	String	Customer supplied Resource Code	Supplied by the customer when a Resource is created or entered on the Resource details on the web.

15.2. Save or Update a Resource (ResourceSave)

This service allows a new Resource to be added, or an existing resource to be updated.

To update a resource, set ResUpdate = 1 and supply, in order of precedence, ResId, ResReference or the ResCode.

15.2.1. Required Parameters for Update

Name	Type	Description	Note
Action	String	ResourceSave	
ResUpdate	Bool	Set to true to mark as an update	Set to 1

And one of the following to identify the resource:

ResId	Int	Integer Id of the resource	
ResReference	String	Resource Reference	
ResCode	String	Resource Code	

15.2.2. Required Parameters for creating a new resource

Name	Type	Description	Note
Action	String	ResourceSave	
ResName	String	Resource Name	
ResGroupName	String	Group name	

15.2.3. Optional Parameters

Name	Type	Description	Note
ResReference	String	Resource Reference	Can be used to identify the resource when updating
ResCode	String	Resource Code	Can be used to identify the resource when updating
ResTachoCard	String	Resource Tacho Card	
ResName	String	Resource Name	Required for a new resource
ResMobile	String	Resource Mobile No	
ResOutOfShiftPrivate	Bool	Out Of Shift Private	1 or 0
ResTimeZone	String	Resource Time Zone	
ResHasTrackingAlert	Bool	Resource Has Tracking Alert	1 or 0
ResKeyWork	String	Business Key	
ResKeyPrivate	String	Private Key	
Res4Tracking	Bool	Resource Is Tracked	1 or 0
ResFuelCard	String	Fuel Card	
ResMaxTravelDist	Int	Maximum Travel Distance for a Job	
ResGroupName	String	Group name	Required for a new resource
Resource4Schedule	Int	JobWatch Setting	
ResDefaultRate	Decimal (6.2)	Default Hourly Rate	
ResRateCurrency	String	Default Hourly Rate Currency	
ResPassengerOK	Bool	Can Set Themselves as Passenger	1 or 0
ResHolidayStart	Date	Start of Holiday Year	
ResPayroll	String	Payroll number	
ResManagerId	Int	Id of Manager	
ResDaysHoliday	Int	Number of Days Vacation	
ResHideParentInfo	Bool	Hide contact's parent information on the device	1 or 0
ResLinkedToUser	Bool	Linked to User:	1 or 0

		'true' links to existing user, ResUserId must be supplied 'false' with ResUserEmail creates and links to new Basic User.	
ResUserId	Int	User Id to link to, use with ResLinkedToUser.	
ResUserEmail	String	User email to create new basic user, use with ResLinkedToUser.	
ResCanSeeOwnOnly	Bool		1 or 0
ResUpdate	Bool	Set to true to mark as the request as an Update	1 or 0
cust_	String	Pass cust_ followed by caption of Existing custom field	

15.3. Delete a Resource (ResourceDelete)

This service deletes the specified Resource, and optionally the linked Web User.

Name	Type	Description	Note
Action	String	ResourceDelete	
ResId	Int	Id of the resource to be deleted	Required
ResDeleteWebUser	Bool	If 1 also deletes the linked web user	1 or 0 (optional)

15.4. List Current Resource Groups (ResourceGroups)

This service returns a list of all current resource groups.

15.4.1. Required Parameters

Name	Type	Description	Note
Action	String	ResourceGroups	

15.5. Save a new Resource Group (ResourceGroupSave)

This service creates a new resource group or updates the name of a resource group.

15.5.1. Required Parameters

Name	Type	Description	Note
Action	String	ResourceGroupSave	
ResourceGroupId	Int	Id of the resource group to update	Id of Resource Group, for updating only
ResourceGroupName	String	Name of the resource group	Required

15.6. Delete a Resource Group (ResourceGroupDelete)

This service deletes the specified resource group. The group will only be deleted if it does not contain any resources.

15.6.1. Required Parameters

Name	Type	Description	Note
Action	String	ResourceGroupDelete	
ResourceGroupId	Int	Id of the resource group to delete	

15.7. List Resource Absence Types (AbsenceTypes)

This service returns a list of resource absence types.

15.7.1. Required Parameters

Name	Type	Description	Note
Action	String	AbsenceTypes	

15.8. Add a Resource Absence Type (AbsenceTypeSave)

This service either adds a new absence type or updates an existing type when an absence type id is provided.

When updating, either or both the name and colour can be updated. When adding both the name and colour must be included.

15.8.1. Required Parameters

Name	Type	Description	Note
Action	String	AbsenceTypeSave	
AbsenceTypeId	Int	Id of the absence type to update	Only when updating
AbsenceTypeName	String	Name of the absence type	Required when adding
AbsenceTypeColor	String	Colour to display in JobWatch	Required when adding "Gold", "LightSalmon", "Moccasin", "plum", "DarkOrchid", "SlateBlue", "SkyBlue", "MediumAquamarine", "YellowGreen", "GreenYellow" These are also case sensitive – "plum" is correct!

15.9. Remove an Absence Type (AbsenceTypeDelete)

This service deletes an absence type.

15.9.1. Required Parameters

Name	Type	Description	Note
Action	String	AbsenceTypeDelete	
AbsenceTypeId	Int	Id of the absence type to remove	Required

15.10. List Resource Skills or Asset Attributes (Attributes)

This service lists the available attributes.

15.10.1. Required Parameters

Name	Type	Description	Note
Action	String	Attributes	
AttributeType	Int	The type of attributes to list	1 for Resource Skills 2 for Asset Attributes

15.11. Update or Add a New Resource Skill or Asset Attribute (AttributeSave)

This service allows the addition of a new resource skill or asset attribute, or the updating of an existing skill or attribute.

15.11.1. Required Parameters

Name	Type	Description	Note
Action	String	AttributeSave	
AttributeId	Int	Id of the attribute to update	Only when updating
AttributeType	Int	The type of attribute to update/create	1 for Resource Skill 2 for Asset Attribute Required when adding new Optional when updating
AttributeName	String	Name of the skill/attribute	Required when adding new Optional when updating

15.12. Delete a Resource Skill or Asset Attribute (AttributeDelete)

This service deletes a resource skill or asset attribute.

15.12.1. Required Parameters

Name	Type	Description	Note
Action	String	AttributeDelete	
AttributeId	Int	Id of the attribute to delete	

15.13. List Resource Absences (ResourceAbsences)

This service lists the absences for a resource within an optional date range.

15.13.1. Required Parameters

Name	Type	Description	Note
Action	String	ResourceAbsence	
ResourceId	Int	Id of the resource	Required
From	Date	Start date of date range	(yyyy-mm-ddThh:mm), Optional
To	Date	End date of date range	(yyyy-mm-ddThh:mm), Optional

15.14. Add a Resource Absence (ResourceAbsenceSave)

This service adds a resource absence. All parameters are required.

15.14.1. Required Parameters

Name	Type	Description	Note
Action	String	ResourceAbsenceSave	
ResourceId	Int	Id of the resource	Required
AbsenceTypeId	Int	Id of the absence type	Required
From	Date	Start date of date range	(yyyy-mm-ddThh:mm), Required
To	Date	End date of date range	(yyyy-mm-ddThh:mm), Required
DaysRequested	Int	Length of the absence	Required
Paid	Bool	Whether the absence is paid (1) or unpaid (0)	1 or 0, Required
IsLocalTime	Bool	The islocaltime is passed where a user is passing the local time as oppose to a datetime that has already been converted to UTC	An option field that defaults to false if nothing is passed. If set to true it converts the datetime passed to UTC
Reason	String	Reason for absence	
WithAlert	Bool	New JobWatch alert status	An optional field that defaults to false if nothing is passed. The routine triggers the custom action alert service if set to true

15.15. Update the Status of a Resource Absence (ResourceAbsenceSetStatus)

Allows updating of the status of a resource absence.

15.15.1. Required Parameters

Name	Type	Description	Note
Action	String	ResourceAbsenceSetStatus	
AbsenceId	Int	Id of absence to update	Required
AbsenceStatus	Int	Id of absence status	Required: Requested = 2, Queried = 5, Rejected = 10, Approved = 15
AbsenceComment	String	Comment String	optional

15.16. Delete a Resource Absence (ResourceAbsenceDelete)

Allows the removal of a resource absence.

15.16.1. Required Parameters

Name	Type	Description	Note
Action	String	ResourceAbsenceDelete	
AbsenceId	Int	Id of absence to remove	Required

15.17. List the working hours for all resource (ResourceWorkingHours)

Returns the working hours for all resources, with the option of including resources with no working hours specified.

15.17.1. Required Parameters

Name	Type	Description	Note
Action	String	ResourceWorkingHours	
IncludeEmpty	Bool	1 to include resources with no working hours	Optional, defaults to False (0)

15.17. Add Resource Working Hours (ResourceWorkingHoursSave)

This service saves the working hours for a resource. More than one day can be added with the addition of a trailing number on the Day, From and To parameters i.e. Day1, From1, To1, Day2, From2, To2, etc.

15.17.2. Required Parameters

Name	Type	Description	Note
Action	String	ResourceWorkingHoursSave	
ResourceId	Int	Id of the resource	Required
Day	String	The day of the week	Required
From	Time	Start time for the day	(hh:mm), Required
To	Time	End time for the day	(hh:mm), Required

15.18. Delete Resource Working Hours (ResourceWorkingHoursDelete)

This service deletes a resource's working hours. Multiple resource can be specified with the addition of a trailing number on the ResourceId parameter, i.e. ResourceId1, ResourceId2 etc.

15.17.3. Required Parameters

Name	Type	Description	Note
Action	String	ResourceWorkingHoursDelete	
ResourceId	Int	Id of the resource	Required

15.19. Save a Resource Skill (ResourceSkillSave)

Save a skill to a resource, with optional expiry date. The 'Skill' must already exist within JobWatch.

Multiple skills can be assigned with the addition of a trailing number to the 'Skill' and 'ExpiryDate' parameters, i.e. Skill1, ExpiryDate1, Skill2, ExpiryDate2 etc.

15.17.4. Required Parameters

Name	Type	Description	Note
Action	String	ResourceSkillSave	
ResourceId	Int	Id of the resource	Required
Skill	String	Name of the skill	Required
ExpiryDate	Date	Expiry date of the skill	Optional, yyyy-mm-ddThh:mm

15.20. Delete a Resource Skill (ResourceSkillDelete)

Allows the removal of all skills from a resource, or multiple resources with the addition of a trailing number on the ResourceId parameter, i.e. ResourceId1, ResourceId2 etc.

15.17.5. Required Parameters

Name	Type	Description	Note
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Action	String	ResourceSkillDelete	
ResourceId	Int	Id of the resource	Required

15.21. Activity Log (ActivityLog)

Returns holiday and absence data for a set date.

15.17.6. Required Parameters

Name	Type	Description	Note
Action	String	ActivityLog	
ResourceId	Int	Id of the resource	Required
From	DateTime	Start of Date range	Required

15.17.7. Optional Parameters

Name	Type	Description	Note
includeAbsences	Int	Include Absences and Holidays	
approvedOnly	Int	Include only approved absences	
includeDrivingEvents	int	Include driving events	
includeWeekends	Int	Include holidays that fall on a weekend	
midnightformat	Int	Midnight format 0=23:59, 1=24:00	
useassetchecks	Int	Use asset check lookup for non-fixed vehicles	
includelds	Int	Include record ids	

16. Expenses

16.1. List Expenses (Expenses)

This service lists all expenses between a start and end date, with the option of limiting by resource, together with the option to limit Expense Items returned by ExpenseItem Status

16.1.1. Required Parameters

Name	Type	Description	Note
Action	String	Expenses	
Start	DateTime	Start datetime	e.g '2020-01-09 01:00:00.000'
End	DateTime	End Datetime	e.g '2020-01-10 01:00:00.000'
ResourceId	Int	Resource Id	Optional
ItemStatusId	Int	Expense item status Id	Valid Item Status values can be retrieved from the ExpenseItemStatus service mentioned below

16.2. Delete Expenses (ExpenseDelete)

This service accepts an ExpenseId value and deletes the specified expense together with any associated Expense Items

16.2.1. Required Parameters

Name	Type	Description	Note
Action	String	ExpenseDelete	
ExpenseId	Int	Expense Id	

16.3. Add/Update Expenses (ExpenseSave)

This service allows you to add new expenses and expense items together with the option of updating any existing expense or item or adding an expense or item signally.

Within JobWatch an 'Expense' record can have multiple 'Expense Item' records however an expense Item must link to an expense Depending on which entity(s) are being added different parameters become mandatory

16.3.1. Required Parameters

Name	Type	Description	Note
Action	String	ExpenseSave	Always Mandatory
ExpenseId	Int	Expense Id	Mandatory if <ul style="list-style-type: none">Updating an existing ExpenseAdding a new Expense Item
Start	DateTime	Start datetime for expense record	e.g. '2020-01-09 01:00:00.000' Mandatory if <ul style="list-style-type: none">Updating an existing ExpenseAdding a new Expense

			<ul style="list-style-type: none"> Updating Both Expense and Item together Adding Both Expense and Item together
End	DateTime	End datetime of expense record	e.g. '2020-01-09 23:00:00.000' Mandatory if <ul style="list-style-type: none"> Updating an existing Expense Adding a new Expense Updating Both Expense and Item together Adding Both Expense and Item together
ResourceId	Int	Resource Id	Always Mandatory
ExpenseItemId	Int	Expense Item Id	Mandatory if <ul style="list-style-type: none"> Updating an existing Expense Item Updating both Expense and Item Together Adding both Expense and Item Together
ExpenseItemDate	DateTime	Date of expense item	e.g. '2020-01-09 23:00:00.000' Mandatory if <ul style="list-style-type: none"> Updating an existing Expense Item Adding new Expense Item Updating both Expense and Item Together Adding both Expense and Item Together
ExpenseItemTypeId	Int	The required expense item Typeld. A listing service "expensetypes" is described below which allows you to retrieve valid expense types	Mandatory if <ul style="list-style-type: none"> Updating an existing Expense Item Adding new Expense Item Updating both Expense and Item Together Adding both Expense and Item Together
ExpenseItemExclTax	Double	Expense item value prior to tax Note : These values are used literally no tax calculation is undertaken	Mandatory if <ul style="list-style-type: none"> Updating an existing Expense Item Adding new Expense Item Updating both Expense and Item Together Adding both Expense and Item Together
ExpenseItemInclTax	Double	Expense item value prior after tax has been added	Mandatory if <ul style="list-style-type: none"> Updating an existing Expense Item

		Note : These values are used literally no tax calculation is undertaken	<ul style="list-style-type: none"> Adding new Expense Item Updating both Expense and Item Together Adding both Expense and Item Together
ExpenseItemVAT	Double	Expense item tax amount Note : These values are used literally no tax calculation is undertaken	Mandatory if <ul style="list-style-type: none"> Updating an existing Expense Item Adding new Expense Item Updating both Expense and Item Together Adding both Expense and Item Together
ExpenseItemCurrency	String	ISO 3 character currency identifier	E.g.: "GBP" "USD" "EUR"
ExpenseItemFuel	Double	Fuel Cost amount	Not Mandatory
ExpenseItemStatus	Int	The required expense item status value. A listing service "listexpenseitemstatus" is described below which allows you to retrieve valid expense statuses and Integer values	Mandatory if <ul style="list-style-type: none"> Updating an existing Expense Item Adding new Expense Item Updating both Expense and Item Together Adding both Expense and Item Together
ExpenseItemComment	String	Expense Back Office Comment	Not Mandatory
IsLocalTime	Bool	The islocaltime is passed where a user is passing the local time as oppose to a datetime that has already been converted to UTC	An option field that defaults to false if nothing is passed. If set to true it converts the datetime passed to UTC

16.4. Expenses Types (expensetypes)

This service lists the valid expense types available within Jobwatch and is Intended to be used in conjunction with save expense above

16.4.1. Required Parameters

Name	Type	Description	Note
Action	String	ExpenseTypes	No other parameters are required

16.5. Expenses Item Status (ExpenseItemStatus)

This service lists the valid expense statuses available within Jobwatch and is Intended to be used in conjunction with save expense above

16.5.1. Required Parameters

Name	Type	Description	Note
Action	String	ExpenseItemStatus	No other parameters are required

17. Messaging

17.1. Send Message (SendMessage)

This service enables various types of message to be sent from a single call e.g. send the same message to:

- The devices of 1 Resource Group
- The mobile phones identified by 3 Resource IDs
- The JobWatch Messages inbox of 3 web users identified by web user IDs
- The mobile phones identified by 2 telephone numbers
- Two email addresses

17.1.1. Required Parameters

Name	Type	Description	Note
Action	String	messagesend	
Body	String	Message body text	Maximum length: 1000

17.1.2. Optional Parameters

Name	Type	Description	Note
ResourceIdsDevice	String	A comma delimited list of resource IDs to send device message to	
ResourceIdsMobile	String	A comma delimited list of resource IDs to send SMS to	
WebUserIds	String	A comma delimited list of user IDs to send JobWatch message to	
MobileNumbers	String	A comma delimited list of mobile numbers in format +447954012012, to send SMS to (numbers don't have to be assigned to a web user)	
ResourceGroupIds	String	A comma delimited list of resource group IDs to send device message to	
Emails	String	A comma delimited list of email addresses to send email to (don't have to be assigned to a web user)	
AllResources	Bool	A flag determining if the message is sent to all devices belonging to Resources	Defaults to false
Answers	String	A comma delimited list of buttons to show on a device message	e.g. "Yes,No"
Subject	String	Subject field of message	Maximum length: 50
ThreadId	Int	Message thread ID	
ParentId	Int	Message parent ID	
EntityType	Int	Entity type relating to message	Job = 1, ContactNote = 2
EntityId	Int	Entity ID relating to message	
Urgent	Bool	A flag determining if the message is treated as urgent	Defaults to false
DateTimeToSend	DateTime	A future UTC date & time to send the message	

18. Reports

18.1. List Driver Behaviour (ReportDriverPerformance)

This service allows you to view how your resources drive. This webservice works like the Driver Behaviour report to relay the same information.

18.1.1. Required Parameters

Name	Type	Description	Note
Action	String	ReportDriverPerformance	
from	DateTime	Start datetime	e.g '2020-01-09 01:00:00.000'
to	DateTime	End Datetime	e.g '2020-01-10 01:00:00.000'
datatodisplay	Int	This allows you to filter the data to how you would like to see it. The webservice can show the data as cores, averages or occurrences of the driving events.	"1": "Score", "2": "Average", "3": "Occurrences"

18.1.2. Optional Parameters

Name	Type	Description	Note
resourceGroupName	String	Resource group name	
resourceGroupid	Int	Resource group id	
resourceReference	String	Resource reference	
resourceid	Int	Resource id	

18.2. List Driver Infringements (ReportDriverInfringement)

This service returns allows you to view each driving infringement event. This webservice works like the Driver Infringement report to relay the same information.

18.2.1. Required Parameters

Name	Type	Description	Note
Action	String	ReportDriverInfringement	
from	DateTime	Start datetime	e.g '2020-01-09 01:00:00.000'
to	DateTime	End Datetime	e.g '2020-01-10 01:00:00.000'

18.2.2. Optional Parameters

Name	Type	Description	Note
resourceGroupName	String	Resource group name	
resourceGroupid	Int	Resource group id	
resourceReference	String	Resource reference	
resourceid	Int	Resource id	
SpeedThreshold	Int	This sets the threshold percentage, for how much over the speed limit, would count as being an infringement.	The default is taken from the speed threshold set on your site.

18.3. List Asset Behaviour (reportvehicleperformance)

This service allows you to view how your assets drive. This webservice works like the Driver Behaviour report to relay the same information but for assets instead of resources

18.3.1. Required Parameters

Name	Type	Description	Note
Action	String	reportvehicleperformance	
from	DateTime	Start datetime	e.g '2020-01-09 01:00:00.000'
to	DateTime	End Datetime	e.g '2020-01-10 01:00:00.000'
dataToDisplay	Int	This allows you to filter the data to how you would like to see it. The webservice can show the data as cores, averages or occurrences of the driving events.	"1": "Score", "2": "Average", "3": "Occurrences"

18.3.2. Optional Parameters

Name	Type	Description	Note
AssetRegistration	String	Name of a singular asset	
AssetId	Int	JobWatch asset Id	
AssetType	Int	This parameter allows you to use all of the assets in your site under a certain type	"4": "Car", "5": "Trailer", "6": "Bus" "7": "Emergency", "8": "GoodsLess7_5T ", "9": "GoodsMore7_5T " "10": "BusLess12 "

18.4. List Custom Fields (listcustomfields)

This service allows you to retrieve details of Custom Fields set-up against different entities. For example – retrieve the Custom Fields defined on Contact Groups

18.4.1. Required Parameters

Name	Type	Description	Note
action	string	ListCustomFields	

18.4.2. Filter Parameters

Use the following filter parameters to filter the response for specific set of custom field definitions.

Both parameters must be supplied to successfully filter the response data

Name	Type	Description	Note
entityTypeid	int	This parameter selects an entity (ie Contact). For example, if you want to look at the custom fields defined for Contacts use EntityTypeid = 1 Note – these are the custom field definitions (which are on the Contact Group, Job Type etc) not the actual Custom Field values on individual Contacts	Contact = 1, ContactNote = 2, Job = 3, stockItem = 4, Asset = 5, Resource = 6, Invoice = 7, DefInvoiceItem = 8, QuoteAcceptance = 11
entityGroupid	int	This parameter specifies the actual “group” of Custom Fields to be returned For Example - when entityTypeid =1 (Contact), entityGroupid is the Contact Group Id (which the custom fields are defined against)	

18.5. Add or update custom fields (addupdatecustomfield)

This service returns allows you to add or update custom fields

18.5.1. Required Parameters

Name	Type	Description	Note
Action	String	addupdatecustomfield	
entityType	Int	This parameter selects an entity. For example, if you want to look at contact custom fields, entitytypeid would equal 1.	Contact = 1, ContactNote = 2, Job = 3, stockItem = 4, Asset = 5, Resource = 6, Invoice = 7, DefInvoiceItem = 8, QuoteAcceptance = 11
entityGroupid	Int	This parameter selects an entity type group using id.	
Caption	String	Name of the custom field	

Type	String	This parameter selects the type of custom field you are creating or editing	Boolean = 0, NumberInteger = 1, NumberDecimal = 2, Text = 3, List = 4, Statement = 6, Date = 8, Note = 9, Time = 11
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18.5.2. Optional Parameters

Name	Type	Description	Note
customfieldId	Int	To edit an existing custom field – use this parameter	
Mandatory	Bool	If the custom field is mandatory, set this parameter to true	
options	Int	Resource reference	
Defaultvalue	String		
Order	Short		The default is taken from the speed threshold set on your site.
Madatoryvalue	String		
Mandatoryalert	String		

18.6. Delete custom fields (deletcustomfield)

This service returns allows you to delete custom fields

18.6.1. Required Parameters

Name	Type	Description	Note
Action	String	deletcustomfield	
customfieldId	Int	The id of the custom field you'd like to delete	

18.7. Set contact custom field value (setcontactcustomfieldvalue)

This service returns allows you to set contact custom field values

18.7.1. Required Parameters

Name	Type	Description	Note
Action	String	setcontactcustomfieldvalue	
contactId	Int	The id of the contact you'd like to edit	Id will take precedence over Reference. Only one contact parameter is required.
contactRef	String	The reference of the contact you'd like to edit	
Cust_customFieldName	String	Additional custom fields created for each job type.	Replace <code>customFieldName</code> with the name of the custom field as it appears on the job details page. Multiple custom field parameters may be added to the request.

18.8. Set stock item custom field value (setstockitemcustomfieldvalue)

This service returns allows you to set stock custom field values

18.8.1. Required Parameters

Name	Type	Description	Note
Action	String	setstockitemcustomfieldvalue	
ItemSerialNo	Int	Set the Serial Number parameter to find the stock item. This takes precedence over stockItemId	
StockItemId	String	If ItemSerialNo is set, stockitemid does not need to be set	

Appendix A – Version History

Version	Date	Author	Details
192	04/09/2018	Ian Herring	<ul style="list-style-type: none"> Updated FindStockItem with new parameters for locating by StockItemId Added new method FindStockItemByContact Added new method StockItemDelete
193	19/09/2018	Ian Long	<ul style="list-style-type: none"> Added Send Job Confirmation Email Uploading Job Attachments – POST Updated Retrieving Job Worksheets Added Page and Pagesize parameters to JobList service
194	29/01/2019	Ian Herring	<ul style="list-style-type: none"> Added Contact Delete Person Added Save Stock Details
195	26/02/2019	Simon Fox	<ul style="list-style-type: none"> Added SalesOpportunityOwnerId parameter to AddSalesOpportunity
196	07/03/2019	Simon Fox	<ul style="list-style-type: none"> Added ContactGroupDelete
197	14/08/2019	Ian Herring	<ul style="list-style-type: none"> Added JobCardUrl, JobCardDownload and InvoiceDownload
198	02/09/2019	Ian Long	<ul style="list-style-type: none"> Added Custom Fields to Jobs and JobList Added JobId parameter to FinancialDocuments
199	09/09/2019	Ian Herring	<ul style="list-style-type: none"> Updated supported Attachment Types on Attachments Updated JobWorkSheets with new “url” parameter value Updated AddStock with new “solddate” parameter value
200	26/09/2019	Jason Evans	<ul style="list-style-type: none"> Updated JobsList with new “includetime” parameter value Updated JobsList with new “excludejobtypeids” parameter value Updated JobsList with new “excludenullplanneddates” parameter value
201	26/09/2019	James Brown	<ul style="list-style-type: none"> Added JobStatusSave
202	02/10/2019	Jason Evans	<ul style="list-style-type: none"> Added web service ContractsList Added web service ContractSave Added web service ContractsById Added web service ContractsByReference Added web service ContractFinancialLines Added web service addcontractfinancialline
203	03/10/2019	Jason Evans	<ul style="list-style-type: none"> Modified the Introduction section and adding examples of how to build a web query using postman and in code. Added action to each heading so they all appear in the contents page. Modified the font to Oswald throughout. Added web service Invoiceswithitems Removed duplicate web service Retrieve stock & custom fields associated with a job Formatted all text to Oswald
204	24/10/2019	Andrew Crofts	<ul style="list-style-type: none"> Added web service Resources Added web service ResourceSave Added web service ResourceDelete Added web service ResourceGroups Added web service ResourceGroupSave Added web service ResourceGroupDelete Added web service AbsenceTypes Added web service AbsenceTypeSave Added web service AbsenceTypeDelete Added web service Attributes Added web service AttributeSave

			<ul style="list-style-type: none"> Added web service AttributeDelete Added web service ResourceAbsences Added web service ResourceAbsenceSave Added web service ResourceAbsenceDelete Added web service ResourceWorkingHours Added web service ResourceWorkingHoursSave Added web service ResourceWorkingHoursDelete Added web service ResourceSkillSave Added web service ResourceSkillDelete
206	06/11/2019	James Brown	<ul style="list-style-type: none"> Added web service RegisterAddonLicenceKey
207	26/11/2019	James Brown	<ul style="list-style-type: none"> Added web service CheckForAddonLicenceKey
208	05/12/2019	James Brown	<ul style="list-style-type: none"> Add web service ListMethods Add web service ListParams
209	11/12/2019	Simon Fox	<ul style="list-style-type: none"> Extracted Internal use webservices to separate document
210	08/01/2020	Katie Beckett	<ul style="list-style-type: none"> Added web service TemplateList Added JobCardId parameter to JobCardDownload
211	09/01/2020	Katie Beckett	<ul style="list-style-type: none"> Added details on Basic Auth
212	10/01/2020	Katie Beckett	<ul style="list-style-type: none"> Removed "CustRefId" from JobAddStock Revised wording of "usually set by the customer" in JobAddStock to be clearer
213	17/01/2020	Ian Long	<ul style="list-style-type: none"> Added Expenses suite
214	17/01/2020	Katie Beckett	<ul style="list-style-type: none"> Added web service GetNotes
215	20/01/2020	Katie Beckett	<ul style="list-style-type: none"> Added JobPO and ContactId parameters to Job
216	26/01/2020	Katie Beckett	<ul style="list-style-type: none"> Edited JobSave to include "GroupJobId" result
217	27/01/2020	Simon Fox	<ul style="list-style-type: none"> Added web service ResourceDetail
218	28/01/2020	Ian Long	<ul style="list-style-type: none"> Updated expense action names
219	03/02/20 20	Katie Beckett	<ul style="list-style-type: none"> Added new parameters to WebUserSave Added new parameters to AddStock
220	05/02/2020	Ian Long	<ul style="list-style-type: none"> Added Expense item status Id as a parameter to limit expense items returned by status
221	05/02/2020	Katie Beckett	<ul style="list-style-type: none"> Added missing parameters to JobAddStock
222	05/02/2020	Simon Fox	<ul style="list-style-type: none"> Added Assets, AssetAddResource, AssetRemoveResource.
223	06/02/2020	James Kelly	<ul style="list-style-type: none"> Updated page 1 branding
224	07/02/2020	James Brown	<ul style="list-style-type: none"> Added AutoLog Authentication
225	14/02/2020	Ian Long	<ul style="list-style-type: none"> AddAttachments Service
226	25/02/2020	Katie Beckett	<ul style="list-style-type: none"> Added parameters ResourceGroupId to GetNotes
227	27/02/2020	Katie Beckett	<ul style="list-style-type: none"> Added extra parameters to WebUserSave
228	11/03/2020	Katie Beckett	<ul style="list-style-type: none"> Added web service Driver ReportDriverPerformance Added web service ReportDriverInfringement
229	11/03/2020	Jason Evans	<ul style="list-style-type: none"> Updated Job – added new parameters for excludejobstatusIds and optional parameter for filtering by contactParentId
230	17/03/2020	Katie Beckett	<ul style="list-style-type: none"> Updated JobCardURL – added new parameter.
231	18/03/2020	Katie Beckett	<ul style="list-style-type: none"> Added web service - ContactNoteTypeList
232	24/03/2020	James Brown	<ul style="list-style-type: none"> Added web service - MessageSend
233	25/03/2020	Jason Evans	<ul style="list-style-type: none"> Added web service – JobsCount Updated web service – Dateoptions – added status date to output

234	30/03/2020	James Brown	<ul style="list-style-type: none"> Updated web service - JobSave
235	01/04/2020	Katie Beckett	<ul style="list-style-type: none"> Added web services: JobUpdateStockQty, JobDeleteStock, liststockmakemodel, deletestockmakemodel, addstockreorderlevel, liststockreorderlevel, deletestockreorderlevel Edited web services: job, JobSchedule
236	07/04/2020	Katie Beckett	<ul style="list-style-type: none"> Edited web services: ResourceSave Added webservices: commentsave
237	09/04/2020	Ian Long	<ul style="list-style-type: none"> Added web services UserRoles, UserGroups
238	21/04/2020	Katie Beckett	<ul style="list-style-type: none"> Added Web service ContactDetailByPostCode
239	29/04/2020	Jason Evans	<ul style="list-style-type: none"> Updated Invoiceswithitems – text change: changed action from ‘Invoices’ to ‘Invoiceswithitems’
240	01/05/2020	Ian Herring	<ul style="list-style-type: none"> Updated JobAddStock response to show JobStockId which is to be used with JobUpdateStockQty
241	22/05/2020	Ian Long	<ul style="list-style-type: none"> Updated WebUserSave to allow Custom Fields to be updatable Updated addupdatecustomfield to allow Web User Custom Fields to be added Updated WebUserList adding returnCustomFields parameter to include Custom Fields in the result if set
242	01/06/2020	Katie Beckett	<ul style="list-style-type: none"> Edited JobCancel to include the new keepJob Parameter Edited JobSave to include new update on JobType parameter and missing parameters Added 5 Webservices: listcustomfields, addupdatecustomfield, deletcustomfield, setcontactcustomfieldvalue, setstockitemcustomfieldvalue, ReportVehicleBehaviour
243	14/06/2020	Katie Beckett	<ul style="list-style-type: none"> Replaced URL https://webservice.bigchange.com with https://webservice.bigchange.com Added URL to test environment https://test.webservice.bigchange.com Added “ContactsByPhone” webservice to document
244	24/06/2020	Andrew Crofts	<ul style="list-style-type: none"> Added web service - ResourceAbsenceSetStatus
245	30/06/2020	Katie Beckett	<ul style="list-style-type: none"> Updated webservice Job Updated webservice JobAddStock
246	07/07/2020	Ian Herring	<ul style="list-style-type: none"> Added JobSchedulingAssistant
247	16/07/2020	Ian Long	<ul style="list-style-type: none"> Correct error in Resources
248	17/07/2020	Katie Beckett	<ul style="list-style-type: none"> Removed duplicate parameters from AddStock Added webservices: JobSiteAddress, Corrected name for from ReportVehicleBehaviour to ReportVehiclePerformance
249	20/07/2020	Katie Beckett	<ul style="list-style-type: none"> Updated Resources to use Resource Group Id
250	20/07/2020	Katie Beckett	<ul style="list-style-type: none"> Updated JobSave to list secondarypersons parameter
251	22/07/2020	Andrew Crofts	<ul style="list-style-type: none"> Added FindStockMovements
252	17/08/2020	Ian Long	<ul style="list-style-type: none"> Added retainSecondaryPersons parameter to JobSave
253	25/08/2020	Katie Beckett	<ul style="list-style-type: none"> Removed Post Parameters from 4.27.3 Readded missing custom action, JobsaveworksheetanswerImage
254	26/08/2020	Ian Long	<ul style="list-style-type: none"> Added JobUpdateReference service
255	07/09/2020	Jason Evans	<ul style="list-style-type: none"> Added AccountReceiptSave service
256	07/10/2020	Ian Herring	<ul style="list-style-type: none"> Updated FinancialDoc service
257	12/10/2020	Katie Beckett	<ul style="list-style-type: none"> Updated FinancialDoc service Updated Job service
258	21/10/2020	Katie Beckett	<ul style="list-style-type: none"> Fixed Typo

			<ul style="list-style-type: none"> Added decode note on phone number query parameters Added two webservices: FinancialDocSend & JobSaveWorkSheetAnswerSignature
259	06/11/2020	Katie Beckett	<ul style="list-style-type: none"> Updated JobSaveWorkSheetAnswerSignature
260	27/11/2020	Jason Evans	<ul style="list-style-type: none"> Added Get stock worksheets for job (getstockworksheetsforjob) service Added Retrieving Purchase orders or Quotations (TransactionWithItems) service
261	10/12/2020	Katie Beckett	<ul style="list-style-type: none"> Edited ResourceSkillSave
262	10/12/2020	Jason Evans	<ul style="list-style-type: none"> Added Find a pre-defined Item (findpredefinedinitem) service Added Delete a pre-defined Item (deletepredefinedinitem) service
263	23/12/2020	Ian Herring	<ul style="list-style-type: none"> Added field sizes to AddStock
264	08/01/2020	Ian Herring	<ul style="list-style-type: none"> Updated parameters for GetUserAutoLogUid
265	15/01/2020	Katie Beckett	<ul style="list-style-type: none"> Updated assets with includeCustomFields parameter
266	21/01/2021	Jason Evans	<ul style="list-style-type: none"> Added Payments web service which was missing from document Added PaymentSetStatusById webservice which was missing from document Added PaymentsList web service which has been newly created Updated Savestockdetails – added new and missing fields for vatcode and nominal code respectively
267	04/02/2021	Katie Beckett	<ul style="list-style-type: none"> Updated SalesOpportunity with new parameters
268	12/12/2021	Jason Evans	<ul style="list-style-type: none"> Updated Settag to include sales opportunities Updated ContactListPerson to include display and filter main user Updated AddAttachments to include sales opportunities
269	22/02/2021	Katie Beckett	<ul style="list-style-type: none"> Added ContactSetTagPerson Added ContactPersonRemoveTag
270	24/02/2021	Katie Beckett	<ul style="list-style-type: none"> Added ContactListByEmailAddress
271	15/03/2021	Ian Long	<ul style="list-style-type: none"> Added optional parameter “includeDefaults to FinancialLines
272	18/03/2021	Katie Beckett	<ul style="list-style-type: none"> Fixed copy paste error on Scheduling Assistant API
273	01/04/2021	Katie Beckett	<ul style="list-style-type: none"> Added webservice: contactbyemailaddress
274	13/04/2021	Andrew Crofts	<ul style="list-style-type: none"> Updated Contracts: ContactDetail
275	19/04/2021	Jason Evans	<ul style="list-style-type: none"> Updated ExpenseSave: ExpenseSave Updated JobStatusSave: JobStatusSave
276	26/04/2021	Jason Evans	<ul style="list-style-type: none"> Updated JobAddStock: JobAddStock Added web service: FindStockItembyAsset
277	29/04/2021	Jason Evans	<ul style="list-style-type: none"> Updated ResourceAbsenceSave: ResourceAbsenceSave
278	29/04/2021	Jason Evans	<ul style="list-style-type: none"> Added web service: LiveOdometer
279	07/05/2021	Jason Evans	<ul style="list-style-type: none"> Updated web service: Savestockdetails Added new web service: trackingoptions
280	10/05/2021	Jason Evans	<ul style="list-style-type: none"> Updated web service: stocksave
281	18/05/2021	Jason Evans	<ul style="list-style-type: none"> Added new web service: AccountContactSave
282	11/06/2021	Jason Evans	<ul style="list-style-type: none"> Updated web service: commentsave Updated web service: getstockworksheetsforjob
283	14/06/2021	Ian Long	<ul style="list-style-type: none"> Updated web service: contactsave

284	21/06/2021	Jason Evans	<ul style="list-style-type: none"> Added new web service: createpredefinedinvitem
285	28/06/2021	Jason Evans	<ul style="list-style-type: none"> Added new web service: AssetOpenDefects Added new web service: GetContactNote Added new web service: findstockonplannedjobs
286	30/06/2021	Katie Beckett	<ul style="list-style-type: none"> Added new web service: JobAddAssistants
287	15/07/2021	Katie Beckett	<ul style="list-style-type: none"> Amended ContactsByPhone to include new parameter Amended JobCancel parameter description
288	02/08/2021	Jason Evans	<ul style="list-style-type: none"> Added new web service: StockItemSave
289	28/10/2021	Jason Evans	<ul style="list-style-type: none"> Amended web service: JobSave Added new web service: Automationmappings Added new web service: Automationinboundservicefields Added new web service: Automationinboundmapping Amended web service: Contractslist Amended web service: Jobslist Added new web service: TagHistory
290	22/11/2021	Katie Beckett	<ul style="list-style-type: none"> Added new web service: ActivityLog
291	23/11/2021	Ian Herring	<ul style="list-style-type: none"> Revised 1.6 Basic Authentication to state “company key” must be supplied. Previous text alluded that the parameter could be excluded.
292	23/11/2021	Jason Evans	<ul style="list-style-type: none"> Added new web service: SalesOpportunityList
293	26/11/2021	Ian Long	<ul style="list-style-type: none"> Added new webservice JobsByGroup
294	10/12/2021	Ian Long	<ul style="list-style-type: none"> Added TagHistoryDelete
295	16/12/2021	Ian Herring	<ul style="list-style-type: none"> Added “alpha” URL to Introduction
296	25/01/2022	Katie Beckett	<ul style="list-style-type: none"> Added UserId parameter to AutologUID
297	28/01/2022	Ian Herring	<ul style="list-style-type: none"> Updated description of default behaviour of ‘replaceQty’ on AddStock
298	01/02/2022	Katie Beckett	<ul style="list-style-type: none"> Updated Introduction
299	08/02/2022	Katie Beckett	<ul style="list-style-type: none"> Updated Entity Ids parameter on TagHistory
300	24/02/2022	Katie Beckett	<ul style="list-style-type: none"> Added new webservices: AddJobRecurrence, RecurrencePatternList
301	06/05/2022	Andrew Crofts	<ul style="list-style-type: none"> Updated ContactSave with What3Words parameter
302	09/05/2022	Andrew Crofts	<ul style="list-style-type: none"> Updated JobSave with What3Words parameter
303	30/05/2022	Ian Herring	<ul style="list-style-type: none"> Updated JobAddAttachments
304	03/10/2022	Ian Long	<ul style="list-style-type: none"> Deny update to Weight, Selling price, Qty in subsequent AddStock calls
305	14/10/2022	Ian Herring	<ul style="list-style-type: none"> Updated ListCustomFields – to filter, method required both parameters
306	19/10/2022	Ian Herring	<ul style="list-style-type: none"> Added missing AssetsGroup action
307	01/11/2022	Ian Herring	<ul style="list-style-type: none"> Revised “WithAlert” parameter on JobStatusSave to clearly state Alerts and Automations will be triggered
308	25/11/2022	Ian Long	<ul style="list-style-type: none"> Updated AddStock to allow Qty Update on stock
309	25/01/2023	Ian Herring	<ul style="list-style-type: none"> Added JobCardName to JobCardDownload Corrected UserId parameter on AutologUID
310	27/01/2023	Jason Evans	<ul style="list-style-type: none"> Updated GenerateFinancialDocumentforJob parameters – AddToGroup
311	02/05/2023	Ian Herring	<ul style="list-style-type: none"> Removed reference to Professional Service – please contact your Customer Success Manager Removed incorrect detail on JobSave regarding JobType updating
312	15/06/2023	Laurence Morris	<ul style="list-style-type: none"> Added new web service: JobGroupDetailUpdate

313	19/06/2023		<ul style="list-style-type: none"> Updated JobGroupDetailUpdate documentation. This now has information about how to clear a group job title by passing a single blank space as the newJobGroupTitle parameter. It also includes information about passing jobGroupld instead of/with jobGroupReference to resolve issues with multiple group jobs using the same reference.
314	04/08/2023	Ian Herring	<ul style="list-style-type: none"> ContactListByEmailAddress – added optional parameters “IncludeCustomFields” and “IncludeFlags”
315	31/08/2023	Ian Herring	<ul style="list-style-type: none"> JobSave – added optional parameter “SalesOpportunityld”.
316	01/09/2023	Ian Herring	<ul style="list-style-type: none"> AssetsGroups – added option parameter “IncludeCustomFields” Assets – corrected spelling of “AssetGroup” <p>New methods from September (23.06)</p> <ul style="list-style-type: none"> VehicleTypes IconList Currencies
317	12/09/2023	Ian Herring	<ul style="list-style-type: none"> AssetDetail – new method to retrieve individual asset information AssetSave – create a new asset
318	12/09/2023	Jason Evans	<ul style="list-style-type: none"> Updated method ContactSave with new parameter to update polygon Updated method Adding or editing a job (JobSave) with new parameter to update jobtype
319	02/10/2023	Ian Herring	<ul style="list-style-type: none"> JobGroupCancel – optional parameter ExcludeJobTypeIds
320	01/11/2023	Andrew Crofts	<ul style="list-style-type: none"> JobSave constraint formats updated
321	10/11/2023	Andrew Crofts	<ul style="list-style-type: none"> JobCardDownload – New MatchNameCase parameter
322	27/11/2023	Ian Herring	<ul style="list-style-type: none"> Removed reference to “bigchangeapps” Removed deprecated C# code example – replaced with Postman steps for code generation. Updated Basic Authentication section