

## How To Use External References To Retrieve/Update Workforce Records

In this document the standard method to retrieve or update a Workforce record is to get or post to a URL comprising `api2/OBJECT NAME/XXXX` where `XXXX` is the record ID to use the external reference this is changed to `api2/extref/XREF`. If the XREF contains a `'/'` XREF can be replaced by a character and the URL encoded XREF passed as a query parameter called `xref` eg

Xref = "karl/1"

Api2/extref/X?extref= Karl%2F1@auth=...

### Create new Customer

URL	api2/customers
Data	<code>{"Customer": {"external_ref": "A%42", "name": "Apstation Ltd", "website": "", "status_id": 0, "type_id": -1, "notes": "", "account_ref": "BAPP1", "account_on_hold": 0, "status": 0}}</code>
Returns	<code>{"Success": "Record Added", "id": "999999"}</code> or <code>{"Error": "Record was not Added", "Fields": {"name": ["Customer name is required"]}}</code>

### Create new Site and associate it to an existing Customer in a single call

URL	api2/customer/XXXX/sites
Data	<code>{"Site": {"name": "Test Site", "address_1": "address line 1", "address_2": "line 2", "city": "The City", "county": "Countyshire", "country": null, "postcode": "", "telephone": "", "fax": "", "email": null, "notes": null, "site_notes": null, "hazards": "", "auto_email_enabled": "0", "auto_email_addresses": "", "status": "0", "external_ref": ""}}</code>
Returns	<code>{"Success": "Record Added", "id": "999999"}</code> or <code>{"Error": "Record was not Added", "Fields": {"name": ["Site name is required"]}}</code>

### Set default site for a customer

URL	api2/customer/XXXX
Data	<code>{"Customer": {"default_site_id": "YYYY"}}</code>
Returns	<code>{"Success": "Record Updated"}</code> Or <code>{"Error": "Record was not found"}</code>

### Create contact and associate to a site

URL	api2/site/YYYY/contacts
Data	<code>{"Contact": {"external_ref": null, "title_id": null, "first_name": "Fred", "last_name": "Smith", "salutation": "", "position": null, "department_id": "0", "address_1": "addr 1", "address_2": "", "city": "A City", "county": "Countystuff", "country": null, "postcode": "", "telephone": "", "mobile": null, "fax": "", "email": null, "notes": null, "auto_email_enabled": "0", "auto_email_addresses": ""}}</code>
Returns	<code>{"Success": "Record Added", "id": "999999"}</code> Or <code>{"Error": "Record was not Added", "Fields": {"first_name": ["first name is required"]}}</code>

### Create new job

URL	api2/jobs
Data	<pre>{   "Job": {     "customer_id": "13",     "customer_site_id": "43",     "job_number": "KW438M",     "contact_id": "34",     "customer_ref": "",     "provisional_datetime": "29/01/2016",     "provisional_duration": "01:00:00",     "job_type_id": "1",     "notes": "Test",     "external_ref": "IQ1",     "attend_by_datetime": null,     "complete_by_datetime": null,     "region_id": "0",     "trade_id": "0",     "priority": "0",     "extra_emails": "",     "personnel_created_id": "0"   } }</pre>
Returns	<pre>{   "Success": "Record Added",   "id": "999999" } Or {   "Error": "Record was not Added",   "Fields": {     "job_type_id": ["job_type_id is required"]   } }</pre>
Info	The job number and external_ref can be the same or different. If the job number is omitted Workforce will create a new job number.

### Create a job with equipment that needs checking

URL	api2/jobs
Data	<pre>{   "Job": {     "customer_id": "13",     "customer_site_id": "43",     "job_number": "KW440M",     "contact_id": "34",     "customer_ref": "",     "provisional_datetime": "29/01/2016",     "provisional_duration": "01:00:00",     "job_type_id": "1",     "notes": "Test",     "external_ref": "IQ3",     "attend_by_datetime": null,     "complete_by_datetime": null,     "region_id": "0",     "trade_id": "0",     "priority": "0",     "extra_emails": "",     "personnel_created_id": "0"   },   "Equipment": [     {       "equipment_id": "EQ1",       "value": "1"     },     {       "equipment_id": "EQ2",       "value": "1"     }   ] }</pre>
Returns	<pre>{   "Success": "Record Added",   "id": "999999" } Or {   "Error": "Record was not Added",   "Fields": {     "job_type_id": ["job_type_id is required"]   } }</pre>
Info	The Equipment section is an array containing a list of equipment IDs. In the example above, EQ1 & EQ2 are two different equipment IDs

### Schedule a visit for a job and assign to a personnel

URL	api2/jobschedules
Data	<pre>{   "JobSchedule": {     "job_id": "JJJJ",     "personnel_id": "PPP",     "start_datetime": "2016-09-29 16:00:00",     "end_datetime": "2016-09-29 17:00:00",     "all_day": "0",     "priority": "PRI",     "reason": "",     "notes": ""   } }</pre>
Returns	<pre>{   "Success": "Record Added",   "id": "999999" } Or {   "Error": "Record was not Added",   "Fields": {     "notes": ["notes is required"]   } }</pre>
Info	<p>JJJJ = Job ID from above          PPP = Personnel ID to schedule visit for          PRI = Priority ID for the visit</p> <p>Note that this will only schedule the job. To send to the mobile you will have to update the status of the visit afterwards.</p>

### Send a visit to a personnel

URL	api2/jobschedules
Data	<pre>{"JobSchedule":{"id":"JJJJ","schedule_status":"2"}}</pre>
Returns	<pre>{"Success":"Record Added","id":"999999"} Or {"Error":"Record was not Added","Fields":{"notes":["notes is required"]}}</pre>
Info	JJJJ = Job ID from above

### Schedule a visit for a job and send to a personnel

URL	api2/jobschedules
Data	<pre>{"JobSchedule":{"job_id":"JJJJ","personnel_id":"PPP","start_datetime":"2016-09-29 16:00:00","end_datetime":"2016-09-29 17:00:00","all_day":"0","priority":"PRI","reason":"","schedule_status":"2"}}</pre>
Returns	<pre>{"Success":"Record Added","id":"999999"} Or {"Error":"Record was not Added","Fields":{"notes":["notes is required"]}}</pre>
Info	<p>JJJJ = Job ID from above PPP = Personnel ID to schedule visit for PRI = Priority ID for the visit</p> <p>This will create the visit, schedule it and set the status to 'Sending to mobile'. The mobile will not pick this up until the next time it syncs.</p>

### Send a visit to the associated personnel

URL	api2/jobschedule/XXXX/Send
Data	N/A
Returns	<pre>{"Success":"Record Added","id":"999999"} Or {"Error":"Record was not Added","Fields":{"notes":["notes is required"]}}</pre>
Info	<p>XXXX = Job Schedule/Visit ID <b>Note that the visit will only be downloaded by the mobile if the schedule_status of the visit is &gt;= 2</b></p>

### Cancel a visit and remove from mobile device

URL	api2/jobschedule/XXXX/Cancel
Data	<pre>{"reason":"description of reason for cancellation"}</pre>
Returns	<pre>{"Success":"Job Cancelled"} Or {"Error":"Record was not found"}</pre>
Info	XXXX = Job Schedule/Visit ID

## Get Visit status

URL	GET - api2/jobschedule/XXXX																																			
Data	{"reason":"description of reason for cancellation"}																																			
Returns	<pre>{   "JobSchedule": {     "id": "27567",     "client_id": "1",     "job_id": "25335",     "personnel_id": "3",     "visit_number": "4",     "start_datetime": "2016-11-10 16:00:00",     "end_datetime": "2016-11-11 17:00:00",     "all_day": "0",     "status_id": "0",     "priority": "0",     "schedule_status": "1", // This is the current visit status     "reason": "",     "locked": "0",     "locked_by_user_id": "0",     "locked_reason": "",     "last_moved": "0000-00-00 00:00:00",     "modified": "2016-11-10 11:05:06",     "external_ref": "",     "travel_to_duration": "0",     "on_site_duration": "0",     "work_duration": "0",     "travel_from_duration": "0"   } }</pre>																																			
Info	<table border="1"> <thead> <tr> <th colspan="2">Visit Status IDs:</th> </tr> </thead> <tbody> <tr> <td>0 =&gt; 'Unassigned'</td> <td>// Job Cancelled Statuses</td> </tr> <tr> <td>1 =&gt; 'Scheduled'</td> <td>25 =&gt; 'Cancel Sent',</td> </tr> <tr> <td>2 =&gt; 'Sending'</td> <td>26 =&gt; 'Cancel Received',</td> </tr> <tr> <td>3 =&gt; 'Received'</td> <td>27 =&gt; 'Cancel Acknowledged',</td> </tr> <tr> <td>4 =&gt; 'Accepted'</td> <td></td> </tr> <tr> <td>5 =&gt; 'Travelling to Site'</td> <td>// Travelling from job statuses</td> </tr> <tr> <td>6 =&gt; 'Travelling to Site'</td> <td>30 =&gt; 'Completed (Waiting To Travel From Job)',</td> </tr> <tr> <td>7 =&gt; 'Arrived On Site'</td> <td>31 =&gt; 'Completed (Waiting To Travel From Job - Requires Attention)',</td> </tr> <tr> <td>8 =&gt; 'Working'</td> <td>32 =&gt; 'Completed (Travelling From Job)',</td> </tr> <tr> <td>9 =&gt; 'Completed'</td> <td>33 =&gt; 'Completed (Travelling From Job - Requires Attention)',</td> </tr> <tr> <td>10 =&gt; 'Cancelled'</td> <td>34 =&gt; 'Completed',</td> </tr> <tr> <td>11 =&gt; 'On Hold'</td> <td>35 =&gt; 'Completed (Requires Attention)',</td> </tr> <tr> <td>12 =&gt; 'Rejected'</td> <td></td> </tr> <tr> <td>13 =&gt; 'No Access',</td> <td></td> </tr> <tr> <td>14 =&gt; 'Completed (Requires Attention)'</td> <td></td> </tr> <tr> <td>20 =&gt; 'Assigned to non-mobile user'</td> <td>40 =&gt; 'On Hold (Office)'</td> </tr> </tbody> </table>		Visit Status IDs:		0 => 'Unassigned'	// Job Cancelled Statuses	1 => 'Scheduled'	25 => 'Cancel Sent',	2 => 'Sending'	26 => 'Cancel Received',	3 => 'Received'	27 => 'Cancel Acknowledged',	4 => 'Accepted'		5 => 'Travelling to Site'	// Travelling from job statuses	6 => 'Travelling to Site'	30 => 'Completed (Waiting To Travel From Job)',	7 => 'Arrived On Site'	31 => 'Completed (Waiting To Travel From Job - Requires Attention)',	8 => 'Working'	32 => 'Completed (Travelling From Job)',	9 => 'Completed'	33 => 'Completed (Travelling From Job - Requires Attention)',	10 => 'Cancelled'	34 => 'Completed',	11 => 'On Hold'	35 => 'Completed (Requires Attention)',	12 => 'Rejected'		13 => 'No Access',		14 => 'Completed (Requires Attention)'		20 => 'Assigned to non-mobile user'	40 => 'On Hold (Office)'
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### Get overall job status

URL	GET - api2/job/XXXX
Data	N/A
Returns	<pre>{   "Job": {     "id": "25335",     "client_id": "1",     "customer_id": "2",     "customer_site_id": "3",     "job_number": "V1041M",     "contact_id": null,     "customer_ref": "",     "provisional_datetime": "29/01/2016",     "provisional_duration": "01:00:00",     "job_type_id": "60",     "status_id": "2", // Current job status     "date_completed": null,     "invoice_status_id": "0",     "notes": "Test",     "status": "0", // 1 = Archived, 2 = Deleted     "modified": "2016-11-10 10:34:58",     "created": "2016-11-10 10:07:07",     "external_ref": "IQ1",     "search_personnel": "Moto G\r\n",     "additional_search": "",     "response_time_id": null,     "attend_by_datetime": null,     "complete_by_datetime": null,     "region_id": "0",     "trade_id": "0",     "priority": "0",     "extra_emails": "",     "personnel_created_id": "0",     "job_number_int": "00000000000000000000000000000000V1041M",     "raised_by_user_id": "0",     "raised_by_personnel_id": "0"   } }</pre>
Info	<p>Job Status IDs:</p> <ul style="list-style-type: none"> <li>0 =&gt; 'Unassigned',</li> <li>1 =&gt; 'Not Started',</li> <li>2 =&gt; 'In Progress',</li> <li>3 =&gt; 'On Hold',</li> <li>4 =&gt; 'Completed',</li> <li>5 =&gt; 'To Invoice',</li> <li>6 =&gt; 'Invoiced',</li> <li>7 =&gt; 'Closed',</li> <li>8 =&gt; 'Cancelled',</li> <li>9 =&gt; 'Requires Attention'</li> </ul>

## Check for changes to jobs

URL	GET - api2/listnewJobReportsAuditLogID/XXXX
Data	N/A
Returns	<pre>{   "id": "305671", "user_id": "23", "personnel_id": null, "type": "JobStatus", "record_id": "4360", "value": "1", "reasoncode": "", "reasontext": ""},   {"id": "305672", "user_id": "23", "personnel_id": null, "type": "JobStatus", "record_id": "4360", "value": "2", "reasoncode": "", "reasontext": ""},   {"id": "305673", "user_id": null, "personnel_id": "3", "type": "JobStatus", "record_id": "4360", "value": "3", "reasoncode": "", "reasontext": ""},   {"id": "305678", "user_id": null, "personnel_id": "3", "type": "JobReport", "record_id": "496", "value": "Travelling to Site"},   {"id": "305683", "user_id": null, "personnel_id": "3", "type": "JobReport", "record_id": "496", "value": "Arrived On Site"},   {"id": "305688", "user_id": null, "personnel_id": "3", "type": "JobReportUpdate", "record_id": "2066", "value": ""},   {"id": "305689", "user_id": null, "personnel_id": "3", "type": "JobReportUpdate", "record_id": "2066", "value": ""},   {"id": "305690", "user_id": null, "personnel_id": "3", "type": "JobReportUpdate", "record_id": "2066", "value": ""},   {"id": "305691", "user_id": null, "personnel_id": "3", "type": "JobReport", "record_id": "496", "value": "Completed"} }</pre>
Info	<p>Where XXX is the last audit id processed. Start off at 0.          In the example data above:</p> <p>305671 User id 23 assigned job schedule id 4360 (status 1 in value attribute)          305672 User id 23 sent it to mobile (status 2 in value attribute)          305673 job received by personnel id 3 PDA (status 3 in value attribute)          The PDA user now starts the job and completes the start travel screen this results in a job report being created          305678 Personnel id 3 sent back job report 496 job item "Travelling to site"          305683 Personnel id 3 sent back job report 496 job item "Arrived to site"          305688 305689 305690 Personnel id 3 sent back job report item 2066 updates          305691 Personnel id 3 sent back job report 496 completion</p>

## Retrieve a Job Report

URL	GET - api2/jobreport/XXX
Data	N/A
Returns	<pre>{   "JobReport": {     "id": "496", "job_id": "4217", "job_schedule_id": "4360", "client_id": "1", "personnel_id": "3", "status": "0", "email_status": "4", "job_progress": "Completed", "job_completed": "1", "name": null, "pdf_report_status": "3", "pdf_report_location": "testing\\Jobs\\2016_08_23_15_53_19_cd255309ea89081ab4381acf10c5ef9a\\Visit Report - J499M.pdf", "pdf_report_size": "1686582", "pdf_report_updated": "2016-08-23 15:53:22", "email_status_updated": null, "created": "2016-08-23 15:42:49", "external_ref": ""}   } }</pre>

## Get questions/answers from a job report

URL	GET - api2/jobreportanswers/YYYY
Data	N/A
Returns	<pre> {"JobReport":{"id":"496","job_id":"4217","job_schedule_id":"4360","client_id":"1","personnel_id":"3","status":"0","email_status":"4","job_progress":"Completed","job_completed":"1","name":null,"pdf_report_status":"3","pdf_report_location":"testing/Jobs/2016_08_23_15_53_19_cd255309ea89081ab4381acf10c5ef9a/Visit Report - J499M.pdf","pdf_report_size":"1686582","pdf_report_updated":"2016-08-23 15:53:22","email_status_updated":null,"created":"2016-08-23 15:42:49","external_ref":""},"Answers":{"Start Travel":{"questions":{"96":{"question":"Address","type":"textbox","answer":"Immingham North East, Immingham, Lincolnshire, DN40 2LZ","copiedFrom":"StaticQuestion-2783","external_ref":""},"97":{"question":"Start Travel Time","type":"datetime","answer":"2016-08-23 15:40:00","copiedFrom":"StaticQuestion-2784","external_ref":""},"98":{"question":"Estimated Travel Time","type":"time","answer":"00:00","copiedFrom":"StaticQuestion-2785","external_ref":""}}},"Travelling":{"questions":{"100":{"question":"Address","type":"textbox","answer":"Immingham North East, Immingham, Lincolnshire, DN40 2LZ","copiedFrom":"StaticQuestion-2787","external_ref":""},"101":{"question":"Current ETA","type":"etadatetime","answer":"","copiedFrom":"StaticQuestion-2788","external_ref":""}}},"Confirm Arrival":{"questions":{"107":{"question":"Site Hazard I confirm that I have read the hazards above","type":"site_hazard","answer":"","copiedFrom":"","external_ref":""},"109":{"question":"Arrival Date/Time","type":"datetime","answer":"2016-08-23 15:40:00","copiedFrom":"StaticQuestion-2794","external_ref":""},"110":{"question":"Travel Duration","type":"time","answer":"00:00","copiedFrom":"StaticQuestion-2795","external_ref":""}}},"Start Work":{"questions":{"111":{"question":"Start Work Date/Time","type":"datetime","answer":"2016-08-23 15:40:00","copiedFrom":"StaticQuestion-2796","external_ref":""},"112":{"question":"Estimated Work Time","type":"time","answer":"00:00","copiedFrom":"StaticQuestion-2797","external_ref":""}}},"On Site":{"questions":{"117":{"question":"Parts Used","type":"textbox","answer":"","copiedFrom":"StaticQuestion-2805","external_ref":""},"118":{"question":"Parts Used","type":"textbox","answer":"","copiedFrom":"","external_ref":""},"119":{"question":"Final Remarks","type":"textbox","answer":"","copiedFrom":"StaticQuestion-2807","external_ref":""},"120":{"question":"Finish Date/Time","type":"datetime","answer":"2016-08-23 15:50:00","copiedFrom":"StaticQuestion-2808","external_ref":""},"121":{"question":"Picture of core","type":"photos","answer":"This would be a base64 encoded jpeg file","copiedFrom":"StaticQuestion-2816","external_ref":""},"122":{"question":"Engineer Name","type":"textbox","answer":"Karl Wells","copiedFrom":"StaticQuestion-2809","external_ref":""},"123":{"question":"Engineer Signature","type":"signature","answer":"829,464,829,464;829,464,832,466;832,466,836,471;836,471,838,472;838,472,847,481; 2016-08-23 15:52:20","copiedFrom":"StaticQuestion-2810","external_ref":""},"124":{"question":"Customer Name","type":"textbox","answer":"Dan Dare ","copiedFrom":"StaticQuestion-2811","external_ref":""},"125":{"question":"Customer Signature","type":"signature","answer":"176,549,176,548;176,548,176,547; 2016-08-23 15:52:38","copiedFrom":"StaticQuestion-2812","external_ref":""}}}}},"Equipment":[],"Forms":[] </pre>

	<p><b>Example of what gets returned in the Equipment array:</b></p> <pre>"Equipment":[ {"id":"219","client_id":"1","site_id":"62","external_ref":"","equipment_type_id":"55","title":"RS1","description":"Roller Shutter","serial_no":"UDH66645t77","status":"0","created":"2015-12-23 16:25:49","warranty_expiry":null, "EquipmentJobQuestionAnswer":[ {"question":"Equipment Checked?","type":"dropdown","answer":"Equipment has been checked.","copiedFrom":"EQT-checked","external_ref":"checked"}, {"question":"Check for any lateral movement between the lath sections?","type":"yesno","answer":"Y","copiedFrom":"EQT-527","external_ref":""}, {"question":"Remark","type":"textbox","answer":"","copiedFrom":"EQT-528","external_ref":""}, {"question":"Refix\replace end-locks with rivets","type":"ynreason","answer":"N Already done","copiedFrom":"EQT-529","external_ref":""}, {"question":"Check for any deflection on the barrel","type":"yesno","answer":"Y","copiedFrom":"EQT-531","external_ref":""}, {"question":"Additional Works Required","type":"textbox","answer":"","copiedFrom":"EQT-532","external_ref":""}, {"question":"Condition","type":"radioset","answer":"","copiedFrom":"EQT-533","external_ref":""}]]],</pre> <p><b>The equipment attributes are in the Equipment and the answers in the EquipmentJobQuestionAnswer.</b></p>
Info	YYY = Job Report ID

### Upload a supporting document

URL	<p>POST - api2/customer/XXX/supportingdocuments or POST - api2/site/XXX/supportingdocuments or POST - api2/personneldetail/XXX/supportingdocuments</p>
Data	<p>If uploading to our servers, just post the file as a parameter.</p> <p>Else if you're hosting the file post something like this:</p> <pre>{ "SupportingDocument" : { "name" : "Drawing-4.jpg", "file_name" : "", "external_url" : "http://www....." } }</pre>
Returns	<pre>{"Success":"Record Added","id":"34"} // If it was a new doc or {"Success":"File uploaded"} // If an existing document was updated Or {"Error":"Unfortunately, the system does not accept .jpg files"} // If file type isn't allowed</pre>
Info	<p>XXX = Record ID to upload supporting doc to Additional Personnel are returned as a comma delimited list of personnel detail ID in the Additional Personnel question.</p>



### List supporting documents

URL	GET - api2/customer/XXX/supportingdocuments or GET - api2/site/XXX/supportingdocuments
Data	N/A
Returns	<pre>[   {     "id": "35",     "name": "Drawing-4.pdf",     "modified": "2016-11-10 16:31:40"   },   {     "id": "33",     "name": "Vehicle inspection.pdf",     "modified": "2016-11-10 16:34:40"   } ] Or {"Error":"Record was not found"}</pre>
Info	XXX = Record ID to upload supporting doc to

### Retrieve a supporting document

URL	GET - api2/supportingdocument/YYYY
Data	N/A
Returns	<pre>{   "SupportingDocument": {     "id": "35",     "client_id": "1",     "supporting_document_type_id": "0",     "customer_id": "1",     "site_id": "0",     "job_id": "0",     "personnel_detail_id": "0",     "available_offline": "0",     "append_to_visit_report": "0",     "name": "Drawing-4.pdf",     "file_name": "",     "external_url": "http://www.....",     "modified": "0000-00-00 00:00:00",     "status": "0"   } } Or {"Error":"Record was not found"}</pre>
Info	YYYY = Supporting Document ID

## Download a supporting document

URL	GET - api2/supportingdocument/YYYY/openfile (For the raw file) Or GET - api2/supportingdocument/YYYY/openfileBase64 (For base64 encoded file)
Data	N/A
Returns	The file data Or { "Error": "Record was not found" }
Info	YYYY = Supporting Document ID

## Create a job type

URL	POST - api2/jobtypes
Data	<pre>{   "JobType" : {     "name" : "Extra Work",     "code" : "XW",     "bg_colour" : "#6e1e78",     "colour" : "#000000",     "external_ref" : "xwork",     "disable_accept_option" : "0",     "disable_reject_option" : "0",     "equipment_mandatory" : "0",     "hide_checked_equipment" : "0",     "enable_parts_to_fit" : "0",     "mobile_site_history_pdf" : "0",     "auto_invoice" : "0",     "min_photos" : "0"   } }</pre>
Returns	{ "Success": "Record Added", "id": "999999" } or { "Error": "Record was not Added", "Fields": { "name ": [ "name is required" ] } }

## Copy workflows from another job type

URL	POST - api2/jobtype/XXXX/copyworkflow/YYYY
Data	N/A
Returns	{ "Success": "Workflow copied" } or { "Error": "the problem" }
Info	XXXX = Target job type ID YYYY = Source job type ID

## Create default set of workflows for a job type

URL	POST - api2/jobtype/XXXX/createdefaultworkflows
Data	N/A
Returns	{ "Success": "Workflows created" } or { "Error": "the problem" }
Info	XXXX = Target job type ID

### List the workflows on a job type

URL	GET - api2/jobtype/XXX/workflows
Data	N/A
Returns	<pre> {   "Workflow" : [{     "id" : "787",     "client_id" : "1",     "job_type_id" : "112",     "form_builder_id" : "0",     "name" : "Start Travel",     "status" : "0",     "created" : "2016-08-23 14:46:35",     "external_ref" : "",     "abort_action" : "[buttonshow-always][canceltravel]",     "back_action" : "",     "next_action" : "",     "complete_action" : "[sendform][buttontext- Start][buttonshow-always][setjobstatus-Travelling][loadform-Travelling]"   }, {     "id" : "788",     "client_id" : "1",     "job_type_id" : "112",     "form_builder_id" : "0",     "name" : "Travelling",     "status" : "0",     "created" : "2016-08-23 14:46:35",     "external_ref" : "",     "abort_action" : "[buttontext-Abort][buttonshow- always][canceltravel]",     "back_action" : "",     "next_action" : "",     "complete_action" : "[sendform][buttontext- Arrived][buttonshow-always][loadform-Confirm Arrival]"   }, {     "id" : "789",     "client_id" : "1",     "job_type_id" : "112",     "form_builder_id" : "0",     "name" : "No Access",     "status" : "0",     "created" : "2016-08-23 14:46:36",     "external_ref" : "",     "abort_action" : "",     "back_action" : "[trigger-onbackpressed][loadform- Confirm Arrival]",     "next_action" : "",     "complete_action" : "[buttontext-Send][buttonshow- always][sendform][noaccess-savereport]"   },     .....   ] } Or {"Error":"Record was not found"} </pre>
Info	XXX = Job type ID

## Retrieve a workflow

URL	GET - api2/workflow/XXX
Data	N/A
Returns	<pre>{   "Workflow": {     "id": "1217",     "client_id": "1",     "job_type_id": "220",     "form_builder_id": "0",     "name": "Start Travel",     "status": "0",     "created": "2015-07-10 09:35:56",     "external_ref": "",     "abort_action": "[buttonshow-always][canceltravel]",     "back_action": "",     "next_action": "",     "complete_action": "[sendform][buttontext-Start][buttonshow- always][setjobstatus-Travelling][loadform-Travelling]"   } } Or {"Error": "Record was not found"}</pre>
Info	XXX = Workflow ID

### Retrieve sections inside a workflow

URL	GET - api2/workflow/XXX/sections
Data	N/A
Returns	<pre> {   "WorkSection": [     {       "id": "2905",       "client_id": "1",       "workflow_id": "1222",       "name": "Photos",       "must_complete_to_continue": "0",       "must_complete_to_finish": "0",       "position": "4",       "locked": "1",       "visible_locked": "0",       "visible": "1",       "created": "2015-07-10 09:35:56",       "external_ref": ""     },     {       "id": "2907",       "client_id": "1",       "workflow_id": "1222",       "name": "Completion Questions",       "must_complete_to_continue": "0",       "must_complete_to_finish": "1",       "position": "8",       "locked": "1",       "visible_locked": "0",       "visible": "1",       "created": "2015-07-10 09:35:56",       "external_ref": ""     }   ] } Or {"Error":"Record was not found"} </pre>
Info	<p>XXX = Workflow ID  Each section of a workflow will be displayed as a tab on the mobile.</p>

### Retrieve a section

URL	GET - api2/worksection/XXX
Data	N/A
Returns	<pre>{   "WorkSection" : {     "id" : "2901",     "name" : "Additional Questions",     "must_complete_to_continue" : "0",     "must_complete_to_finish" : "1",     "position" : "12",     "locked" : "0",     "visible_locked" : "0",     "visible" : "1",     "external_ref" : ""   } } Or {"Error":"Record was not found"}</pre>
Info	XXX = Worksection ID

### Add new section to a workflow

URL	POST - api2/workflow/XXXX/sections
Data	<pre>{   "WorkSection" : {     "name" : "Additional Questions",     "must_complete_to_continue" : "0",     "must_complete_to_finish" : "1",     "position" : "12",     "locked" : "0",     "visible_locked" : "0",     "visible" : "1",     "external_ref" : ""   } }</pre>
Returns	<pre>{"Success":"Record Added","id":"2915"} Or {"Error":"Record was not Added","Fields":{"name":["name is required"]}}</pre>
Info	XXX = Workflow ID

### Retrieve list of questions in a work section

URL	GET - api2/worksection/XXX/questions
Data	N/A
Returns	<pre>{   "ReportQuestion": [     {       "id": "7291",       "client_id": "1",       "job_type_id": "0",       "field_name": "Final Remarks",       "field_type": "textbox",       "cake_params":       "a:1:{s:14:\"ReportQuestion\";a:6:{s:10:\"field_name\";s:13:\"Final       Remarks\";s:10:\"field_type\";s:16:\"gascouncilnumber\";s:8:\"required\";s:1       :\"1\";s:9:\"read_only\";s:1:\"0\";s:13:\"default_value\";s:0:\"\";s:12:\"ex       ternal_ref\";s:0:\"\";}}",       "default_answer": "",       "default_value": "",       "work_section_id": "2907",       "status": "0",       "required": "1",       "read_only": "0",       "locked": "0",       "in_job_history": "0",       "multiple_lines": "0",       "order": "5",       "external_ref": ""     },     .....   ] }</pre> <p>Or</p> <pre>{"Error": "Record was not found"}</pre>
Info	XXX = Work section ID

### Delete a work section

URL	DELETE - api2/worksection/XXX
Data	N/A
Returns	<pre>{"Success": "Record Updated"}</pre> <p>or</p> <pre>{"Error": "Record was not Updated", "Fields": {"field_name": ["field name is       required"]}}</pre>
Info	XXX = Report question ID

### Retrieve a report question

URL	GET - api2/reportquestion/XXX
Data	N/A
Returns	<pre>{   "ReportQuestion" : {     "id" : "3619",     "client_id" : "1",     "job_type_id" : "0",     "field_name" : "Radio Equip 1",     "field_type" : "radioset",     "default_answer" : null,     "default_value" : "",     "work_section_id" : "1858",     "status" : "0",     "required" : "0",     "read_only" : "0",     "locked" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "20",     "external_ref" : ""   },   "options" : ["Option A1", "Option B1"],   "reasons" : {     "0" : "",     "2" : ""   } }</pre> <p>Or</p> <pre>{"Error": "Record was not found"}</pre>
Info	XXX = Report Question ID

### Add a new report question

URL	POST - api2/worksection/XXX/questions
Data	<pre>{   "ReportQuestion" : {     "field_name" : "Radio Equip 1",     "field_type" : "radioset",     "default_answer" : null,     "default_value" : "",     "required" : "0",     "read_only" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "20",     "external_ref" : "",     "question_type_id" : "" // See Question Types section below   },   "options" : ["Option A1", "Option B1"],   "reasons" : {     "0" : "",     "2" : ""   } }</pre>
Returns	<pre>{"Success": "Record Added", "id": "999999"}</pre> <p>Or</p> <pre>{"Error": "Record was not Added", "Fields": {"first_name": ["name is required"]}}</pre>
Info	XXX = Work section ID



## Valid Question Types (field\_type)

<p>'yesno' =&gt; 'Yes No',  'nayesno' =&gt; 'Yes No N/A',  'ynreason' =&gt; 'Yes No (With Reason)',  'nyreason' =&gt; 'No Yes (With Reason)',  'nayesnoreason' =&gt; 'N/A Yes No (With Reason)',  'nanoyesreason' =&gt; 'N/A No Yes (With Reason)',  'yesnonareason' =&gt; 'Yes No N/A (With Reason)',  'yndropdown' =&gt; 'Yes No (Dropdown)',  'yncheckbox' =&gt; 'Yes No (Checkbox)',  'multicheckbox' =&gt; 'Multi-Checkbox',  'radioset' =&gt; 'Radio Set',  'yesnofurtheraction' =&gt; 'YesNo Further Action Required',  'yesnofurtheractionreason' =&gt; 'YesNo Further Action Required (With Reason)',  'noyesfurtheraction' =&gt; 'NoYes Further Action Required',  'noyesfurtheractionreason' =&gt; 'NoYes Further Action Required (With Reason)',  'date' =&gt; 'Date',  'time' =&gt; 'Time',  'datetime' =&gt; 'Date/Time',  'datena' =&gt; 'Date (With N/A)'</p>	<p>'timena' =&gt; 'Time (With N/A)',  'datetimena' =&gt; 'Date Time (With N/A)',  'checkbox' =&gt; 'Checkbox',  'yescheckbox' =&gt; 'Yes Checkbox',  'label' =&gt; 'Label',  'address' =&gt; 'Address',  'textbox' =&gt; 'Single-Line Textbox',  'textarea' =&gt; 'Multi-Line Textbox',  'numerictextbox' =&gt; 'Numeric Textbox',  'quantity' =&gt; 'Quantity',  'addremove' =&gt; 'Add/Remove Quantity',  'photo' =&gt; 'Photo',  'sketch' =&gt; 'Sketch',  'signature' =&gt; 'Signature',  'dropdown' =&gt; 'Dropdown',  'site_hazard' =&gt; 'Site Hazard',  'gascouncilnumber' =&gt; 'Gas Council Number',  'gas_analyser_button' =&gt; 'Gas Analyser Button',  'equipment_picker' =&gt; 'Equipment Picker',  'pfn' =&gt; 'Pass Fail N/A',</p>
---	--

## Update a report question

URL	POST - api2/reportquestion/XXX
Data	<pre>{   "ReportQuestion" : {     "field_name" : "Radio Equip 1",     "field_type" : "radioset",     "default_answer" : null,     "default_value" : "",     "required" : "0",     "read_only" : "0",     "locked" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "20",     "external_ref" : ""   },   "options" : ["Option A1", "Option B1"],   "reasons" : {     "0" : "",     "2" : ""   } }</pre>
Returns	<pre>{"Success": "Record Updated"}</pre> <p>or</p> <pre>{"Error": "Record was not Updated", "Fields": {"field_name": ["field name is required"]}}</pre>
Info	XXX = Report question ID

## Delete a report question

URL	DELETE - api2/reportquestion/XXX
Data	N/A
Returns	<pre>{"Success": "Record Updated"}</pre> <p>or</p> <pre>{"Error": "Record was not Updated", "Fields": {"field_name": ["field name is required"]}}</pre>
Info	XXX = Report question ID

## Question Type Definitions

Field Types	yesno yesnofurtheraction noyesfurtheraction
JSON to create report question	<pre>{   "ReportQuestion" : {     "field_name" : "Question Text",     "field_type" : "Question Type",     "default_value" : "",     "required" : "0",     "read_only" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "0",     "external_ref" : ""   },   "answers" : ["Yes - Option 1", "No - Option 2"],   "options" : [],   "reasons" : [""] }</pre>
Info	The labels for Yes and No are specified in the “answers” array.

Field Types	nayesno
JSON to create report question	<pre>{   "ReportQuestion" : {     "field_name" : "NA YES NO Question",     "field_type" : "nayesno",     "default_value" : "",     "required" : "0",     "read_only" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "0",     "external_ref" : ""   },   "answers" : ["Yes - Option 1", "No - Option 2", "NA - Option 3"],   "options" : [],   "reasons" : [""] }</pre>
Info	The labels for Yes, No and N/A are specified in the “answers” array.

Field Types	ynreason nyreason nayesnoreason yesnonareason yesnofurtheractionreason noyesfurtheractionreason
JSON to create report question	<pre>{   "ReportQuestion" : {     "field_name" : "Quest Text",     "field_type" : "Question Type",     "default_value" : "",     "required" : "0",     "read_only" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "20",     "external_ref" : ""   },   "answers" : ["Reason Label"],   "options" : [""],   "reasons" : [""], }</pre>
Info	The label for the Reason text code is specified in the answers.

Field Types	yncheckbox
JSON to create report question	<pre>{   "ReportQuestion" : {     "field_name" : " Yes No (Checkbox)",     "field_type" : " yncheckbox",     "default_value" : "",     "required" : "0",     "read_only" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "20",     "external_ref" : ""   },   "answers" : ["Checkbox Label"],   "options" : [""],   "reasons" : [""], }</pre>
Info	The label for the checkbox is specified in the answers.

Field Types	radioset multicheckbox
JSON to create report question	<pre>{   "ReportQuestion" : {     "field_name" : "Radio Set ",     "field_type" : "radioset",     "default_value" : "",     "required" : "0",     "read_only" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "90",     "external_ref" : ""   },   "options" : ["Option A", "Option B"],   "reasons" : {     "0" : "",     "2" : ""   } }</pre>
Info	<p>If one of the options is to trigger a Requires Action on completion triggerRA needs specifying:</p> <pre>{   "ReportQuestion" : {     "field_name" : "Radio Set ",     "field_type" : "radioset",     "default_value" : "",     "required" : "0",     "read_only" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "90",     "external_ref" : ""   },   "options" : ["Option A", "Option B"],   "reasons" : {     "0" : "",     "2" : ""   },   "triggerRA" : {     "1" : "on"   } }</pre> <p><i>The triggerRA array index starts at 0 for the first option. In the example above 'Option B' would trigger the require attention when the visit is completed.</i></p>

Field Types	date time datetime checkbox yescheckbox label address textbox textarea	numerictextbox quantity addressremove photo sketch signature site_hazard gascouncilnumber equipment_picker pfn
JSON to create report question	<pre> {   "ReportQuestion" : {     "field_name" : "Question Text",     "field_type" : "Question Type",     "default_value" : "",     "required" : "0",     "read_only" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "160",     "external_ref" : ""   },   "options" : [""],   "reasons" : [""], } </pre>	
Info	<p>If one of the options is to trigger a Requires Action on completion triggerRA needs specifying:</p> <pre> {   "ReportQuestion" : {     "field_name" : "Radio Set ",     "field_type" : "radioset",     "default_value" : "",     "required" : "0",     "read_only" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "90",     "external_ref" : ""   },   "options" : ["Option A", "Option B"],   "reasons" : {     "0" : "",     "2" : ""   },   "triggerRA" : {     "1" : "on"   } } </pre>	

Field Types	datena timena datetimena
JSON to create report question	<pre> {   "ReportQuestion" : {     "field_name" : "Question Text",     "field_type" : "Question Type",     "default_value" : "",     "required" : "0",     "read_only" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "160",     "external_ref" : ""   },   "answers" : ["N\A"],   "options" : [""],   "reasons" : [""], } </pre>

Field Types	dropdown
JSON to create report question	<pre> JSON to post for a simple drop down list {   "ReportQuestion" : {     "field_name" : "Dropdown ",     "field_type" : "dropdown",     "default_value" : "",     "required" : "0",     "read_only" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "310",     "external_ref" : ""   },   "options" : ["A", "B"],   "reasons" : {     "0" : "Reason Label A",     "2" : ""   },   "triggerRA" : {     "1" : "on"   } }  JSON to post for a drop with a reason box if the first option is selected {   "ReportQuestion" : {     "field_name" : "Dropdown ",     "field_type" : "dropdown",     "default_value" : "",     "required" : "0",     "read_only" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "310",     "external_ref" : ""   },   "options" : ["A", "B"],   "reasons" : {     "0" : "Reason Label A",     "2" : ""   } }  JSON to post for a drop down that triggers a Requires attention if second option is selected. {   "ReportQuestion" : {     "field_name" : "Dropdown ",     "field_type" : "dropdown",     "default_value" : "",     "required" : "0",     "read_only" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "310",     "external_ref" : ""   },   "options" : ["A", "B"],    "triggerRA" : {     "1" : "on"   } } </pre>

JSON to post for a drop down that does both reason textbox and triggers requires attention

```
{
  "ReportQuestion" : {
    "field_name" : "Dropdown ",
    "field_type" : "dropdown",
    "default_value" : "",
    "required" : "0",
    "read_only" : "0",
    "in_job_history" : "0",
    "multiple_lines" : "0",
    "order" : "310",
    "external_ref" : ""
  },
  "options" : ["A", "B"],
  "reasons" : {
    "0" : "Reason Label A",
    "2" : ""
  },
  "triggerRA" : {
    "1" : "on"
  }
}
```



## Question Types

If the same question is being asked in multiple places (e.g. different job types) it is best to create a Question Type. You can set up all of the options etc in the Question type as a preset. So when creating new Report/Vehicle/Equipment questions you can specify a 'question\_type\_id' and the mobile app will use the setup from the Question Type instead.

Example:

All job types have a questions called "Which van did you use?"

It's a dropdown with a list of vehicle reg numbers. Normally you would have to update the "Which van did you use?" question on each job type manually every time you added/removed a van from the options list.

If you instead created a "Which Van" Question Type, you would only need to update the Question Type once and it would take effect on all of the questions that are using that Custom Question Type.

### Add a new (Custom) Question Type

URL	POST - api2/questiontypes
Data	<pre>{   "QuestionType": {     "name": "Question Type Name",     "field_type": "dropdown",     "default_value": "",     "required": "0",     "read_only": "0",     "in_job_history": "0",     "multiple_lines": "0",     "external_ref": "",     "extended_info": "0"   },   "options": [     "Option 14",     "Option 25",     "option 36"   ],   "reasons": [   ],   "triggerRA": {     "0":""   },   "longtexts": [   ],   "codes": [   ] }</pre>
Returns	<pre>{"Success":"Record Added","id":"999999"} OR {"Error":"Record was not Added","Fields":{"name":["name is required"]}}</pre>
Info	The setup for question types is the same as Report Questions.

## How to Get/Update/Delete a Question Type

URL	GET/POST/DELETE - api2/questiontype/XXX OR GET/POST/DELETE - api2/questiontype/extref/XXX
Data	<pre> {   "QuestionType": {     "name": "Question Type Name",     "field_type": "dropdown",     "default_value": "",     "required": "0",     "read_only": "0",     "in_job_history": "0",     "multiple_lines": "0",     "external_ref": "",     "extended_info": "0"   },   "options": [     "Option 1",     "Option 2",     "Option 3"   ],   "reasons": [   ],   "triggerRA": {     "0":""   },   "longtexts": [   ],   "codes": [   ] } </pre>
Returns	<p>Get request will return data similar to above OR Post request - {"Success":"Record Updated"} OR Delete Request - {"Success":"Record Deleted"} OR {"Error":"Record was not found"}</p>
Info	<p>XXX = Question Type ID OR XXX = External ref The setup for question types is the same as Report Questions.</p> <p>Note: deleting a question type will also delete any associated questions along with it</p>

## Risk Assessments

Risk Assessments can be created for customers and sites. The question JSON is the same as for the ReportQuestion.

### Get a customer/site specific risk assessment

URL	GET - api2/customer/XXX/riskassessment Or GET - api2/site/XXX/riskassessment
Data	N/A
Returns	<pre>{   "RiskAssessment": {     "id": "4",     "client_id": "1",     "customer_id": "3",     "site_id": "0",     "mandatory": "1",     "created": "2016-09-14 13:57:58",     "modified": "2016-09-15 10:50:29"   } } or {"Error": "Record was not found"}</pre>
Info	XXX = Customer/Site ID

### Create a customer/site specific risk assessment

URL	POST - api2/customer/XXX/riskassessment Or POST - api2/site/XXX/riskassessment
Data	N/A
Returns	<pre>{"Success": "Record Added", "id": "8"} or {"Error": "Record already exists"}}</pre>
Info	XXX = Customer ID

### List questions in a Risk Assessment

URL	GET - api2/riskassessment/XXX/questions
Data	N/A
Returns	<pre>{   "RiskAssessmentQuestion": [     {       "id": "5",       "client_id": "1",       "risk_assessment_id": "5",       "field_name": "Details of significant site specific risks",       "field_type": "textarea",       "default_value": "",       "status": "0",       "required": "1",       "multiple_lines": "0",       "order": "0",       "cake_params": "",       "external_ref": ""     }   ] }</pre> <p>Or</p> <pre>{"Error": "Record was not found"}</pre>
Info	XXX = Risk Assessment ID

### Retrieve a risk assessment question

URL	GET - api2/RiskAssessmentQuestion/XXX
Data	N/A
Returns	<pre>{   "RiskAssessmentQuestion" : {     "id" : "3619",     "client_id" : "1",     "field_name" : "Radio Equip 1",     "field_type" : "radioset",     "default_answer" : null,     "default_value" : "",     "risk_assessment_id" : "1858",     "status" : "0",     "required" : "0",     "read_only" : "0",     "locked" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "20",     "external_ref" : ""   },   "options" : ["Option A1", "Option B1"],   "reasons" : {     "0" : "",     "2" : ""   } }</pre> <p>Or</p> <pre>{"Error": "Record was not found"}</pre>
Info	XXX = Risk Assessment Question ID

## Create a Risk Assessment Question

The question JSON is the same as for the ReportQuestion.

URL	POST - api2/riskassessment/XXX/questions
Data	<pre>{   "RiskAssessmentQuestion" : {     "field_name" : "Radio Equip 1",     "field_type" : "radioset",     "default_answer" : null,     "default_value" : "",     "required" : "0",     "read_only" : "0",     "locked" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "20",     "external_ref" : ""   },   "options" : ["Option A1", "Option B1"],   "reasons" : {     "0" : "",     "2" : ""   } }</pre>
Returns	<pre>{"Success":"Record Added","id":"999999"} or {"Error":"Record was not Added","Fields":{"field_name":["field name is required"]}}</pre>
Info	<p>XXX = Risk Assessment ID Valid types for field_type are the same as Report Questions</p>

## Update a Risk Assessment Question

URL	POST - api2/riskassessmentquestion/XXX
Data	<pre>{   "RiskAssessmentQuestion" : {     "field_name" : "Radio Equip 1",     "field_type" : "radioset",     "default_answer" : null,     "default_value" : "",     "required" : "0",     "read_only" : "0",     "locked" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "20",     "external_ref" : ""   },   "options" : ["Option A1", "Option B1"],   "reasons" : {     "0" : "",     "2" : ""   } }</pre>
Returns	<pre>{"Success":"Record Updated"} or {"Error":"Record was not Added","Fields":{"field_name":["field name is required"]}}</pre>
Info	<p>XXX = Risk Assessment Question ID Valid types for field_type are the same as Report Questions</p>

### Delete a Risk Assessment Question

URL	DELETE - api2/riskassessmentquestion/XXX
Data	N/A
Returns	{"Success":"Record Deleted"} or {"Error":"Record was not found"}
Info	XXX = Risk Assessment Question ID

## Vehicle Reports

These are checks to be performed daily/weekly by personnel before they can start any work.

### List Vehicle Types

URL	GET - api2/vehicletypes
Data	N/A
Returns	<pre>[   {     "VehicleType": {       "id": "3",       "client_id": "1",       "name": "Small Cars",       "created": "2016-09-19 09:47:11",       "modified": "2016-09-26 13:42:23",       "status": "0",       "external_ref": ""     }   },   {     "VehicleType": {       "id": "21",       "client_id": "1",       "name": "Default",       "created": "2016-09-19 16:10:30",       "modified": "2016-09-19 16:10:30",       "status": "0",       "external_ref": null     }   } ]</pre>

### Create a Vehicle Type

URL	POST - api2/vehicletypes
Data	<pre>{   "VehicleType" : {     "name" : "Van No Trailer",     "external_ref" : "V1"   } }</pre>
Returns	<pre>{"Success":"Record Added","id":"25"} or {"Error":"Record was not Added","Fields":{"name":["Name is required"]}}</pre>

### Delete a Vehicle Type

URL	DELETE - api2/vehicletype/XXX
Data	N/A
Returns	<pre>{"Success":"Record Deleted"} or {"Error":"Record was not found"}</pre>
Info	XXX = Vehicle Type ID

### Get a Vehicle Type

URL	GET - api2/vehicletype/XXX
Data	N/A
Returns	<pre>{"VehicleType":{"id":"21","client_id":"1","name":"Default","created":"2016-09-19 16:10:30","modified":"2016-09-19 16:10:30","status":"0","external_ref":null}}</pre>
Info	XXX = Vehicle Type ID

### Update a Vehicle Type

URL	POST - api2/vehicletype/XXX
Data	<pre>{  "VehicleType":{    "id":"21",    "client_id":"1",    "name":"Default",    "created":"2016-09-19 16:10:30",    "modified":"2016-09-19 16:10:30",    "status":"0",    "external_ref":null  } }</pre>
Returns	<pre>{"Success":"Record Updated"} or {"Error":"Record was not found"}</pre>
Info	XXX = Vehicle Type ID



## List Vehicle Type Questions

URL	GET - api2/vehicletypes/XXX/questions
Data	N/A
Returns	<pre> {   "VehicleQuestion": [     {       "id": "88",       "client_id": "1",       "vehicle_type_id": "3",       "field_name": "YesNo",       "field_type": "yesno",       "cake_params":       "a:3:{s:7:\"answers\";a:2:{i:0;s:3:\"Yes\";i:1;s:2:\"No\";}}s:7:\"options\";a :1:{i:0;s:0:\"\";}}s:15:\"VehicleQuestion\";a:5:{s:10:\"field_name\";s:5:\"Ye sNo\";s:12:\"external_ref\";s:0:\"\";s:19:\"default_image_value\";a:5:{s:4: \"name\";s:0:\"\";s:4:\"type\";s:0:\"\";s:8:\"tmp_name\";s:0:\"\";s:5:\"error \";i:4;s:4:\"size\";i:0;}}s:10:\"field_type\";s:5:\"yesno\";s:15:\"vehicle_ty pe_id\";s:1:\"3\";}}",       "status": "0",       "order": "5",       "required": "0",       "multiple_lines": "0",       "created": "2016-09-19 10:06:31",       "modified": "2016-09-19 10:06:31",       "external_ref": ""     }   ] } or {"Error":"Record was not found"} </pre>
Info	<p>XXX = Vehicle Type ID  Valid field types are the same as Risk Assessment/Report Question types.</p>

### Update a Vehicle Question

URL	POST - api2/vehiclequestion/XXXX
Data	<pre>{   "VehicleQuestion" : {     "field_name" : "Radio Equip 1",     "field_type" : "radioset",     "default_answer" : null,     "default_value" : "",     "required" : "0",     "read_only" : "0",     "locked" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "20",     "external_ref" : ""   },   "options" : ["Option A1", "Option B1"],   "reasons" : {     "0" : "",     "2" : ""   } }</pre>
Returns	<pre>{"Success":"Record Updated"} or {"Error":"Record was not updated","Fields":{"field_name":["title is required"]}}</pre>
Info	XXX = Vehicle Question ID Valid field types are the same as Risk Assessment/Report Question types.

### Delete a Vehicle Question

URL	DELETE - api2/vehiclequestion/XXX
Data	N/A
Returns	<pre>{"Success":"Record Deleted"} or {"Error":"Record was not found"}</pre>
Info	XXX = Vehicle Question ID

### Upload Image to Sketch Vehicle Question

URL	POST - api2/vehiclequestion/XXX/sketchimage
Data	Attach image file
Returns	<pre>{"Success":"Image Uploaded"} or {"Error":"Image was not uploaded"}</pre>
Info	XXX = Vehicle Question ID

### Get a list of completed vehicle reports since a date

URL	GET - api2/personnel/details/vehiclereports/YYYY-MM-DD
Data	N/A
Returns	<pre>[   {     "VehicleReports": {       "id": "157",       "client_id": "1",       "personnel_detail_id": "3",       "vehicle_type_id": "0",       "mobile_id": "31",       "datetime": "2016-04-06 15:57:09",       "email_status": "1",       "pdf_report_status": "4",       "pdf_report_location": null,       "pdf_report_size": null,       "pdf_report_updated": "2016-04-07 16:38:58"     }   }, ] Or {"Error":"Invalid date"}</pre>
Info	YYYY-MM-DD = Start date

### Get a list of completed vehicle reports between 2 dates

URL	GET - api2/personnel/details/vehiclereports/YYYY-MM-DD/yyyy-mm-dd
Data	N/A
Returns	<pre>[   {     "VehicleReports": {       "id": "157",       "client_id": "1",       "personnel_detail_id": "3",       "vehicle_type_id": "0",       "mobile_id": "31",       "datetime": "2016-04-06 15:57:09",       "email_status": "1",       "pdf_report_status": "4",       "pdf_report_location": null,       "pdf_report_size": null,       "pdf_report_updated": "2016-04-07 16:38:58"     }   }, ] Or {"Error":"Invalid date"}</pre>
Info	YYYY-MM-DD = Start date yyyy-mm-dd = End date

### Get a vehicle report

URL	GET - api2/vehiclereport/XXX
Data	N/A
Returns	<pre>{   "VehicleReport": {     "id": "157",     "client_id": "1",     "personnel_detail_id": "3",     "vehicle_type_id": "0",     "mobile_id": "31",     "datetime": "2016-04-06 15:57:09",     "email_status": "1",     "pdf_report_status": "4",     "pdf_report_location": null,     "pdf_report_size": null,     "pdf_report_updated": "2016-04-07 16:38:58"   } } Or {"Error": "Record was not found"}</pre>
Info	XXX = Vehicle Report ID

### Get Vehicle Report answers

URL	GET - api2/vehiclereport/XXX/answers
Data	N/A
Returns	<pre>[   {     "id": "546",     "vehicle_question_id": "36",     "vehicle_question_text": "Mileage",     "value": "258",     "answer": "258"   },   {     "id": "547",     "vehicle_question_id": "37",     "vehicle_question_text": "Trailer",     "value": "None",     "answer": "None"   },   {     "id": "548",     "vehicle_question_id": "38",     "vehicle_question_text": "Pass \\/ Fail checks",     "value": "Y",     "answer": "Pass"   } ] Or {"Error": "Record was not found"}</pre>
Info	<p>XXX = Vehicle Report ID</p> <p>The value attribute is the raw answer. The answer attribute is the processed answer.</p> <p>In the case of the last answer this is a YesNo question with the labels changed to Pass and Fail. The value is set to Y for Yes and answer is set to Pass the modified label.</p>

## Locator & Lone Worker

### Get Location Info

URL	GET - api2/personneldetail/XXX/location
Data	N/A
Returns	<pre>{   "PersonnelLocation" : {     "personnel_detail_id" : "XXX",     "latitude" : "53.406689",     "longitude" : "-1.420384",     "accuracy" : "18",     "timestamp" : "2016-10-28 06:39:45",     "current_job_schedule_id" : null,     "gps_loc_enabled" : "1",     "net_loc_enabled" : "1",     "mock_loc_enabled" : "0"   } } Or {"Error":"Record was not found"}</pre>
Info	<p>XXX = Personnel ID</p> <p>Accuracy is measured in meters. gps_loc_enabled set to 1 if GPS is switched on and working net_loc_enabled set to 1 when network location is working ie using cell towers used as a fall back if GPS not working mock_loc_enabled set to 1 if an app that can spoof location is being used ie you cannot trust the location 100%.</p>

### Get Lone Worker Info

URL	GET - api2/personneldetail/XXX/loneworker
Data	N/A
Returns	<pre>{   "PersonnelLocation" : {     "personnel_detail_id" : "XXX",     "lone_status" : "working",     "lone_timestamp" : "2016-10-28 09:36:08"   } } Or {"Error":"Record was not found"} Or {"Error":"Lone Worker not enabled"}</pre>
Info	<p>XXX = Personnel ID</p>

### List all personnel along with Location & Lone Worker info

URL	GET - api2/personnel/details/location
Data	N/A
Returns	<pre>[   {     "id": "16",     "personnel_detail_id": "XXX",     "location_enabled": "1",     "lone_worker_enabled": "1",     "latitude": "53.406688",     "longitude": "-1.420485",     "accuracy": "18",     "timestamp": "2016-09-28 10:14:41",     "current_job_schedule_id": null,     "gps_loc_enabled": "1",     "net_loc_enabled": "1",     "mock_loc_enabled": "0",     "lone_status": "working",     "lone_timestamp": "2016-09-28 10:14:42",     "modified": "2016-09-28 10:14:40"   },   {     "id": "17",     "personnel_detail_id": "YYY",     "location_enabled": "1",     "lone_worker_enabled": "1",     "latitude": "53.406689",     "longitude": "-1.420384",     "accuracy": "18",     "timestamp": "2016-08-31 06:39:45",     "current_job_schedule_id": null,     "gps_loc_enabled": "1",     "net_loc_enabled": "1",     "mock_loc_enabled": "0",     "lone_status": "working",     "lone_timestamp": "2016-10-28 09:36:08",     "modified": "2016-10-28 09:36:08"   } ]</pre>

### Enable / Disable Locator for a personnel

URL	POST - api2/personnel/detail/XXX/location
Data	<pre>{"location_enabled": "yes"}</pre> <p>Or</p> <pre>{"location_enabled": "no"}</pre>
Returns	<pre>{"Success": "locator_enabled"}</pre> <p>Or</p> <pre>{"Error": "Record was not found"}</pre>
Info	XXX = Personnel ID

### Request(Poke) mobile device to attempt to obtain current location and send it back

URL	POST - api2/personneldetail/XXX/location
Data	{"location_poke":"yes"}
Returns	{"Success":"poke"} Or {"Error":"Record was not found"}
Info	XXX = Personnel ID

### Enable / Disable Lone Worker

URL	POST - api2/personneldetail/XXX/lone_worker
Data	{"lone_worker_enabled":"yes"} Or {"lone_worker_enabled":"no"}
Returns	{"Success":"loneworker_enabled"} Or {"Success":"loneworker_disabled"} Or {"Error":"Record was not found"}
Info	XXX = Personnel ID

### Reset Lone Worker timer for personnel

URL	POST - api2/personneldetail/XXX/lone_worker
Data	{"lone_worker_resettimer":"yes"}
Returns	{"Success":"loneworker_resettimer"} Or {"Error":"Record was not found"}
Info	XXX = Personnel ID

### Temporarily disable lone worker until next login for personnel

URL	POST - api2/personneldetail/XXX/lone_worker
Data	{"lone_worker_tempdisablelw":"yes"}
Returns	{"Success":"tempdisablelw"} Or {"Error":"Record was not found"}
Info	XXX = Personnel ID

### Personnel Extra Questions

#### List all personnel extra questions

URL	GET - api2/personneldetails/questions
Data	N/A

Returns

```
[[{"EntityQuestion": {"id": "1", "client_id": "2", "entity_type": "PersonnelDetail", "question_type_id": "0", "field_name": "Certified", "field_type": "checkbox", "default_value": "", "cake_params": "", "order": "0", "required": "0", "multiple_lines": "0", "created": "2017-01-10 11:10:00", "modified": "2017-01-11 11:30:08", "external_ref": "", "status": "0"}, {"EntityQuestion": {"id": "2", "client_id": "2", "entity_type": "PersonnelDetail", "question_type_id": "0", "field_name": "Date Certified", "field_type": "datena", "default_value": "", "cake_params": "a:2:{s:7:answers\\;a:1:{i:0;s:3:N/A\\;};s:14:EntityQuestion\\;a:9:{s:10:field_name\\;s:14:Date Certified\\;s:10:field_type\\;s:6:datena\\;s:13:default_value\\;s:0:\\;s:8:required\\;s:1:0\\;s:14:multiple_lines\\;s:1:0\\;s:12:external_ref\\;s:0:\\;s:19:default_image_value\\;a:5:{s:4:name\\;s:0:\\;s:4:type\\;s:0:\\;s:8:tmp_name\\;s:0:\\;s:5:error\\;i:4;s:4:size\\;i:0};s:11:entity_type\\;s:15:PersonnelDetail\\;s:16:question_type_id\\;i:0;}}", "order": "10", "required": "0", "multiple_lines": "0", "created": "2017-01-10 11:57:43", "modified": "2017-01-10 11:57:43", "external_ref": "", "status": "0"}, {"EntityQuestion": {"id": "4", "client_id": "2", "entity_type": "PersonnelDetail", "question_type_id": "0", "field_name": "Level Acheived", "field_type": "dropdown", "default_value": "", "cake_params": "a:2:{s:7:options\\;a:4:{i:0;s:9:A - Great\\;i:1;s:6:B - OK\\;i:2;s:10:C - Not OK\\;i:3;s:11:D - Dismall\\;};s:14:EntityQuestion\\;a:9:{s:10:field_name\\;s:14:Level Acheived\\;s:10:field_type\\;s:8:dropdown\\;s:13:default_value\\;s:0:\\;s:8:required\\;s:1:0\\;s:14:multiple_lines\\;s:1:0\\;s:12:external_ref\\;s:0:\\;s:19:default_image_value\\;a:5:{s:4:name\\;s:0:\\;s:4:type\\;s:0:\\;s:8:tmp_name\\;s:0:\\;s:5:error\\;i:4;s:4:size\\;i:0};s:11:entity_type\\;s:15:PersonnelDetail\\;s:16:question_type_id\\;i:0;}}", "order": "20", "required": "0", "multiple_lines": "0", "created": "2017-01-11 15:25:12",
```



	<pre> "modified" : "2017-01-11 15:25:12", "external_ref" : "", "status" : "0" } } ] </pre>
--	--

### Add a new personnel extra question

URL	POST - api2/personnel/details/questions
Data	<pre> {   "EntityQuestion" : {     "field_name" : "Radio Equip 1",     "field_type" : "radioset",     "default_answer" : null,     "default_value" : "",     "required" : "0",     "read_only" : "0",     "locked" : "0",     "multiple_lines" : "0",     "order" : "20",     "external_ref" : ""   },   "options" : ["Option A1", "Option B1"],   "reasons" : {     "0" : "",     "2" : ""   } } </pre>
Returns	<pre> {"Success": "Record Added", "id": "999999"} Or {"Error": "Record was not Added", "Fields": {"field_name": ["name is required"]}} </pre>
Info	Valid field types are the same as Risk Assessment/Report Question types.

### Update a Entity Question

URL	POST - api2/entityquestionquestion/XXXX
Data	<pre>{   "EntityQuestion" : {     "field_name" : "Radio Equip 1",     "field_type" : "radioset",     "default_answer" : null,     "default_value" : "",     "required" : "0",     "read_only" : "0",     "locked" : "0",     "in_job_history" : "0",     "multiple_lines" : "0",     "order" : "20",     "external_ref" : ""   },   "options" : ["Option A1", "Option B1"],   "reasons" : {     "0" : "",     "2" : ""   } }</pre>
Returns	<pre>{"Success":"Record Updated"}</pre> or <pre>{"Error":"Record was not updated","Fields":{"field_name":["title is required"]}}</pre>
Info	<p>XXX = Entity Question ID Valid field types are the same as Risk Assessment/Report Question types.</p>

### Delete a Entity Question

URL	DELETE - api2/entityquestion/XXX
Data	N/A
Returns	<pre>{"Success":"Record Deleted"}</pre> or <pre>{"Error":"Record was not found"}</pre>
Info	XXX = Entity Question ID

### Get personnel extra questions and answers

URL	GET - api2/personneldetail/XXX/questions
Data	N/A
Returns	<pre>[{   "id" : "1",   "entity_question_id" : "1",   "value" : "N" }, {   "id" : "8",   "entity_question_id" : "2",   "value" : "2016-01-11" }, {   "id" : null,   "entity_question_id" : "4",   "value" : null }, {   "id" : null,   "entity_question_id" : "5",   "value" : null }, {   "id" : null,</pre>

	<pre> "entity_question_id" : "6", "value" : null } ] </pre>
Info	<p>XXX = Personnel ID</p> <p>A null id indicates the question has not been answered.</p>

### Get personnel extra question and answer

URL	GET - api2/personneldetail/XXX/question/YYY
Data	N/A
Returns	<pre> {   "EntityAnswer" : {     "id" : "1",     "value" : "N",     "created" : "2017-01-10 11:10:24",     "modified" : "2017-01-10 16:09:39"   } } </pre>
Info	<p>XXX = Personnel ID</p> <p>YYY = Entity Question ID</p>

### Update personnel extra question answer

URL	POST - api2/personneldetail/XXX/question/YYY
Data	<pre> {   "EntityAnswer" : {     "value" : "Y",   } } </pre>
Returns	<pre> {"Success":"Record Updated"} or {"Error":"Record was not updated","Fields":{"field_name":["title is required"]}} </pre>
Info	<p>XXX = Personnel ID</p> <p>YYY = Entity Question ID</p>

### Get Job Priority Prompt IDS

URL	GET - api2/jobpriorities
Data	N/A
Returns	<pre> {   "2390" : "AM",   "2391" : "First Call",   "2389" : "PM",   "2388" : "Last Call" } </pre>
Info	

### Get All Active Tasks for Site/Equipment

URL	GET - api2/site/XXX/activetasks OR GET - api2/equipment/XXX/activetasks
Data	NA
Returns	<pre>[   {     "SiteTask": { // OR "EquipmentTask": {       "id": "42",       "client_id": "1",       "site_id": "3",       "text": "Current Task",       "quantity": "0.00",       "quantity_done": "0.00",       "reference": "",       "order": "70",       "external_ref": "",       "status": "0"     }   }, ]</pre>
Info	XXX = Site/Equipment ID An active task is a task that has a Status=0 and quantity_done<quantity

### Get All Tasks on a Job

URL	GET - api2/job/XXX/tasks
Data	NA
Returns	<pre>[   {     "JobTask": {       "id": "42",       "client_id": "1",       "site_id": "3",       "text": "Current Task",       "quantity": "0.00",       "quantity_done": "0.00",       "reference": "",       "order": "70",       "external_ref": "",       "status": "0"     }   }, ]</pre>
Info	XXX = Site/Equipment/Job ID

### Find Tasks for Site/Equipment/Job using an External Reference

URL	GET - api2/site/XXX/tasksByExtRef/YYYY OR GET - api2/equipment/XXX/tasksByExtRef/YYYY OR GET - api2/job/XXX/tasksByExtRef/YYYY
Data	NA
Returns	[ { "SiteTask": { // OR "EquipmentTask": { // OR "JobTask": { "id": "42", "client_id": "1", "site_id": "3", "text": "Current Task", "quantity": "0.00", "quantity_done": "0.00", "reference": "", "order": "70", "external_ref": "", "status": "0" } }, ]
Info	XXX = Site/Equipment/Job ID YYY = External Reference

### Add a new task to a Site/Equipment/Job

URL	POST - api2/site/XXX/tasks OR POST - api2/equipment/XXX/tasks OR POST - api2/job/XXX/tasks
Data	{ "SiteTask": { // OR "EquipmentTask": { // OR "JobTask": { "text": "Current Task", "quantity": "0.00", "quantity_done": "0.00", "reference": "", "order": "70", "external_ref": "", "status": "0" } }
Returns	{"Success": "Record Added", "id": "999999"} Or {"Error": "Record was not Added", "Fields": {"text": ["text is required"]}}
Info	XXX = Site/Equipment/Job ID

## Get all Equipment Types

URL	GET - api2/equipmenttypes
Data	NA
Returns	<pre>[   {     "EquipmentType": {       "id": "1",       "client_id": "1",       "title": "UPS",       "equipment_attribute_id_1": "0",       "equipment_attribute_id_2": "0",       "equipment_attribute_id_3": "5",       "equipment_attribute_id_4": "6",       "status": "0",       "created": "2015-03-23 14:09:03",       "external_ref": "",       "default_checked_state": "0"     }   }, ]</pre>
Info	<p>The equipment_attribute_id_X properties link straight to the equipment_attribute records. The attributes that are linked here are displayed on equipment lists both on the website and on the mobile app.</p> <p>Default_checked_state = Whether or not the equipment is marked as checked automatically on the mobile app without the user having to go into each on and mark it as checked.</p>

## Add a new Equipment Type

URL	POST - api2/equipmenttypes
Data	<pre>{   "EquipmentType": {     "title": "UPS",     "equipment_attribute_id_1": "0",     "equipment_attribute_id_2": "0",     "equipment_attribute_id_3": "5",     "equipment_attribute_id_4": "6",     "status": "0",     "external_ref": "",     "default_checked_state": "0"   } }</pre>
Returns	<pre>{"Success": "Record Added", "id": "999999"} OR {"Error": "Record was not Added", "Fields": {"text": ["text is required"]}}</pre>
Info	

### Get an Equipment Type

URL	GET - api2/equipmenttype/XXX
Data	NA
Returns	<pre>{   "EquipmentType": {     "id": "1",     "client_id": "1",     "title": "UPS",     "equipment_attribute_id_1": "0",     "equipment_attribute_id_2": "0",     "equipment_attribute_id_3": "5",     "equipment_attribute_id_4": "6",     "status": "0",     "created": "2015-03-23 14:09:03",     "external_ref": "",     "default_checked_state": "0"   } }</pre>
Info	XXX = Equipment Type ID

### Update an Equipment Type

URL	POST - api2/equipmenttype/XXX
Data	<pre>{   "EquipmentType": {     "title": "UPS",     "equipment_attribute_id_1": "0",     "equipment_attribute_id_2": "0",     "equipment_attribute_id_3": "5",     "equipment_attribute_id_4": "6",     "status": "0",     "external_ref": "",     "default_checked_state": "0"   } }</pre>
Returns	<pre>{"Success": "Record Updated"} OR {"Error": "Record was not Added", "Fields": {"text": ["text is required"]}}</pre>
Info	XXX = Equipment Type ID

### Delete an Equipment Type

URL	DELETE - api2/equipmenttype/XXX
Data	NA
Returns	<pre>{"Success": "Record Deleted"} Or {"Error": "Record was not Deleted"}</pre>
Info	XXX = Equipment Type ID

## Add a new Equipment

URL	POST - api2/equipments
Data	<pre>{   "Equipment": {     "site_id": 1,     "equipment_type_id": 3,     "external_ref": "",     "title": "Equipment name",     "description": "",     "serial_no": "",     "status": 0,     "warranty_expiry": null,     "next_service_due": null,     "route_id": 0,     "EquipmentAttributeValue": [       {         "equipment_attribute_id": 7,         "value": "Motorbike"       },       {         "equipment_attribute_id": 8,         "value": "thing"       }     ]   } }</pre>
Returns	<pre>{"Success": "Record Added", "id": "999999"} OR {"Error": "Record was not Added", "Fields": {"text": ["text is required"]}}</pre>
Info	The EquipmentAttributeValue array is a list of answers that relate back to the EquipmentAttributes that are linked to the Equipment Type.