

AllOnMobile API - Developer Guide

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This developer guide aims to provide the information you'll need to understand AllOnMobile and to start building AllOnMobile-based applications.

Errors or suggestions related to the documentation can be submitted by sending an email to enquiries@allonmobile.com. You may comment on errors or omissions with regard to accuracy, organisation, subject matter, completeness or presentation of this guide.

Getting Started

- [Overview](#)
- [Security and Authentication](#)
- [Request Validation](#)
- [Model definitions](#)
 - [Field types](#)
- [API Operations](#)
- [Deprecated Operations](#)
- [Object Types](#)

Overview

NOTE

In order to use the AllOnMobile API, you must first request your API username and password from our [AllOnMobile support team](#)

The purpose of this guide is to describe the B2B interfaces for interaction between third-party integrators and AllOnMobile.

External developers should use this guide, in conjunction with the AllOnMobile WSDL, to write programs that interface to the AllOnMobile.

- AllOnMobile API Endpoint - <https://allonmobile.com/api/api.svc>
- AllOnMobile WSDL - <https://allonmobile.com/api/api.svc?wsdl>

Security and Authentication

All web service and browser interaction with the AllOnMobile is over `https`. This ensures that data is sent to and from the AllOnMobile securely and that the client can determine that it is communicating with a trusted server.

Once your AllOnMobile account has been created you'll have immediate access to the API.

NOTE

In order to use the AllOnMobile API, you must first request your API username and password from our [AllOnMobile support team](#)

AllOnMobile makes use of the WS-Security Username Token profile. You will need to ensure that each operation called includes your API username and password. If your username and password is not included or recognised, the API will return an `InvalidSecurityToken` fault.

```
<s:Envelope xmlns:s="..." xmlns:wsse="...">
  <s:Header>
    <wsse:Security>
      <wsse:UsernameToken>
        <wsse:Username>{{YOUR_API_USERNAME}}</wsse:Username>
        <wsse:Password>{{YOUR_API_PASSWORD}}</wsse:Password>
      </wsse:UsernameToken>
    </wsse:Security>
  </s:Header>
  ...
</s:Envelope>
```

Request Validation

The AllOnMobile API validates a client request in two stages. Initially the request is validated against the XML schema, and then it is checked to ensure that it does not violate any business rules.

- A failure of schema validation causes a SOAP fault to be returned
- All other errors are returned within the response described by the `Errors` node
- Business rules that have caused a failure are returned beside the `Errors` node using the `BrokenRules` node

Example:

```
<s:Envelope xmlns:s="...">
  <s:Header>...</s:Header>
  <s:Body>
    <CreateJobResponse xmlns="...">
      <CreateJobResult xmlns:i="...">
        <Success>false</Success>
        <Error>
          <Name>Application not found</Name>
          <ErrorMessage>Unable to locate application 'example'.</ErrorMessage>
          <ErrorCode>3200</ErrorCode>
          <RootCause>...</RootCause>
        </Error>
        <BrokenRules xmlns=""/>
      </CreateJobResult>
    </CreateJobResponse>
  </s:Body>
</s:Envelope>
```

Model definitions

Model	Description
Application	Applications can be considered as a collecting point for related types of data; each application keeps its data isolated from other applications within an account. For example, an account may have a Sales Application and a Maintenance Application, the two might have entirely different requirements for mobile operations.
Job	A job is the digital form that is sent to a device. They carry with them all of the data required to fulfil their purpose. Each job has a small amount of fixed data and a user definable set of fields.
Template	Similar in most ways to a Job, a Template carries with it all the data needed in order to fulfil its purpose. The primary difference between a Job and Template is that an end user can raise a Template at anytime from their mobile device by pressing the Compose icon in the top left of the AllOnMobile app.

Field types

AllOnMobile supports a wide range of field types.

Field type	Description
Divider	A divider visually segments content into groups
TextBox	A textbox defines a multi-line text input control
DropDownList	Allows a user to select a single value from a series of options
CheckBox	Allows a user to select zero or more values from a series of options
Radio	Similar to a DropDownList, a RadioList allows a user to select a single value from a series of options
Date	The date picker is used for selecting a single date; format: DD/MM/YYYY
Time	The time picker is used for selecting a single time; format: HH:MM
Barcode	Allows the user to scan a barcode
Map	Records the devices current position when pressed
Photo	Allows the user to take multiple photos and/or videos

Signature	Allows the user to capture hand written signatures
DecoratedImage	Allows the user to draw graphics either onto a blank canvas, an uploaded image, or from an image selected from the devices gallery
Attachment	Upload a single attachment that the user can view on the device; the app currently extends support to: <ul style="list-style-type: none">• image/png• application/pdf
Print	Enables printing to portable devices; the app currently extends support to: <ul style="list-style-type: none">• Zebra iMZ320
Action	Creates a button which can perform an action when pressed
PageBreak	Defines the end of the current page; in order for the user to continue to any additional pages, they'll need to navigate using an Action .

API Operations

- Applications
 - CreateApplication
 - UpdateApplication
 - DeleteApplication
 - GetApplicationsByCompany
 - GetApplicationsForUserAccount
- User Accounts
 - CreateUserAccount
 - UpdateUserAccount
 - DeleteUserAccount
 - GetUserAccountsByQuery
 - GetUserAccountsOnJob
 - LockUserAccount
 - UnlockUserAccount
 - AddUserAccountsToApplications
 - RemoveUserAccountsFromApplication
 - AddUserAccountsToJobs
 - RemoveUserAccountsFromJobs
 - ResetDataForUserAccount
- Jobs and Templates
 - CreateJobs
 - CreateJobsFromTemplate
 - UpdateJob
 - DeleteJobsById
 - GetJobAttachments
 - GetJobsByIds
 - GetJobsByQuery
 - ResetDataForJob
- Settings
 - GetSettings
 - GetSettingByName
 - UpdateSettings
- Utilities
 - GetSystemInformation
 - UsernameExists
 - ValidateUserAccount

Deprecated Operations

- CreateJob [Please use [CreateJobs](#)]
- CreateJobFromTemplate [Please use [CreateJobsFromTemplate](#)]
- DeleteTemplate [Please use [DeleteJobsById](#)]
- GetApplicationByReference [Please use [GetApplicationsByCompany](#)]
- GetJobById [Please use [GetJobsByIds](#)]
- GetJobByReference [Please use [GetJobsByQuery](#)]
- GetJobHistoryByReference [Please use [GetJobsByQuery](#)]
- GetJobsByUserAccount [Please use [GetJobsByQuery](#)]
- GetTemplatesByApplication [Please use [GetJobsByQuery](#)]
- GetUserAccountByUsername [Please use [GetUserAccountsByQuery](#)]
- GetUserAccountsInApplication [Please use [GetUserAccountsByQuery](#)]

Applications

CreateApplication

Create a single application. Returns a Boolean value indicating whether the request was successfully completed.

NOTE

Once an application has been created, you can assign user to it by using `AddUserAccountsToApplications`.

Request

Element Name	Type	Description
ApplicationName	String	A user friendly name for the application.
ApplicationReference	String	The unique reference for that application. An application reference is used throughout the API when making changes to a particular application.
DeviceCode	String	The unique code that users will have to enter on the AllOnMobile app to access the application.

UpdateApplication

Update a single application. Returns a Boolean value indicating whether the request was successfully completed.

Request

Element Name	Type	Description
ApplicationName	String	A user friendly name for the application.
ApplicationReference	String	The unique reference for that application. An application reference is used throughout the API when making changes to a particular application.
DeviceCode	String	The unique code that users will have to enter on the AllOnMobile app to access the application.

DeleteApplication

Removes a single application. Returns a Boolean value indicating whether the request was successfully completed.

Request

Element Name	Type	Description
ApplicationReference	String	The unique reference of the application you wish to remove.

GetApplicationsByCompany

Returns a collection of all the available **applications** within an account.

NOTE

The request for this API operation does not require any additional parameters.

GetApplicationsForUserAccount

Returns a collection of all the **applications** that an individual user is assigned to.

Request

Element Name	Type	Description
Username	String	The unique identifier of the user account.

User Accounts

CreateUserAccount

Create a new user account which can access the AllOnMobile app. If you would like the user to access the Bridge, you must assign the user as an administrator.

Returns a Boolean value indicating whether the request was successfully completed.

NOTE

Once an account is created, the username will no longer be available to other users.

Request

Element Name	Type	Description
Username	String	The accounts unique username.
Password	String	The accounts password that will be used by the account holder.
DisplayName	String	Friendly display name for the account.
IsAdministrator	Boolean	Indicates whether the user will be allowed access to the AllOnMobile Bridge.

UpdateUserAccount

Update an existing **user accounts** details. Returns a Boolean value indicating whether the request was successfully completed.

NOTE

You cannot amend the username as this is used to retrieve the account details.

Request

Element Name	Type		Description
Username	String		The unique identifier of the user account.
IsAdministrator	Boolean		Indicates whether the user will be allowed access to the AllOnMobile Bridge.
Password	String	[Optional]	The accounts password that will be used by the account holder.
DisplayName	String	[Optional]	Friendly display name for the account.

DeleteUserAccount

Remove a specified user. Returns a `Boolean` value indicating whether the request was successfully completed.

NOTE

Deleting an account will result in the username being made available again for new users.

Request

Element Name	Type	Description
Username	String[]	The unique identifier of the user account.

GetUserAccountsByQuery

Query for specific users based on a set of criteria. Returns a collection of applicable `user accounts`.

Request

Element Name	Type	Description
ApplicationReference	String	The unique reference of the containing application.
Query	QuerySoap	Defines your search parameters; what you are searching for, how to order your results and defines the range of results to return.

Search by properties

- Username
- DisplayName
- IsAdministrator
- DateCreated
- DateModified
- LastLoginDate
- LastLockedOutDate

GetUserAccountsOnJob

Retrieve a collection of **user accounts** currently allocated to a specific job.

Request

Element Name	Type	Description
ApplicationReference	String	The unique reference of the containing application.
JobReference	String	The unique reference of the job.

LockUserAccount

Lock the specified user account. Returns a `Boolean` value indicating whether the request was successfully completed.

NOTE

Locking an account will prevent the user from using any aspect of AllOnMobile.

Request

Element Name	Type	Description
Username	String[]	The unique identifier of the user account.

UnlockUserAccount

Unlocks the specified user account which may have been locked due to exceeding the maximum number of incorrect login attempts or by an administrator. Unlocking the account will allow the user to regain access to AllOnMobile.

Returns a `Boolean` value indicating whether the request was successfully completed.

Request

Element Name	Type	Description
Username	String[]	The unique identifier of the user account.

AddUserAccountsToApplications

Assign multiple user accounts to a set of specific applications. Returns a Boolean value indicating whether the request was successfully completed.

Request

Element Name	Type	Description
ApplicationReferences	String[]	An array of application references the user accounts will be assigned to.
Username	String[]	An array of usernames that will be added to the applications.

RemoveUserAccountsFromApplication

Remove multiple users from a set of specified applications. Returns a Boolean value indicating whether the request was successfully completed.

Request

Element Name	Type	Description
ApplicationReferences	String[]	An array of application references the user accounts will be removed from.
Username	String[]	An array of usernames that will be removed from the applications.

AddUserAccountsToJobs

Assign multiple user accounts to a specific set of jobs. Returns a Boolean value indicating whether the request was successfully completed.

Request

Element Name	Type	Description
ApplicationReference	String	The unique reference of the containing application.
JobReferences	String[]	An array of unique job references that the user accounts will be added to.
Usernames	String[]	An array of distinct usernames.

RemoveUserAccountsFromJobs

Remove multiple user accounts from a specific set of jobs. Returns a Boolean value indicating whether the request was successfully completed.

Request

Element Name	Type	Description
ApplicationReference	String	The unique reference of the containing application.
Usernames	String[]	An array of unique usernames.
JobReferences	String[]	An array of job references that you wish to remove the user accounts from.

ResetDataForUserAccount

Resets the data for a specific user. After performing a reset, all of the allocated jobs will be resent to the user's device and will appear in a 'New' state.

IMPORTANT NOTICE

Performing a data reset may result in loss of data. If the end-user has made changes to a job, and those changes have not yet been submitted, that information will be lost without notice.

NOTE

Resetting a users data can only be done on a per-application basic. If the user is a member of multiple applications, you'll need to perform a reset of each application.

Request

Element Name	Type	Description
Username	String	The unique identity of the user account.
ApplicationReference	String	The unique reference of the containing application.

Jobs and Templates

CreateJobs

Create multiple jobs at once.

Request

Element Name	Type	Description
ApplicationReference	String	The unique reference of the containing application.
Usernames	String[]	An array of users that will be allocated the job.
Job	CreateJobSoap	

CreateJobsFromTemplate

Create multiple jobs based on a single Template.

Request

Element Name	Type	Description
ApplicationReference	String	The unique reference of the containing application.
Usernames	String[]	An array of users that will receive this job.
TemplateTitle	String	The title of the template that this job will be based on.
Job	CreateJobFromTemplateSoap	
OverrideAttachments	Boolean	If you wish to use a different set of attachments from those in the template, set this value to be true .
OverrideGeoCodes	Boolean	If you wish to use a different set of geocodes from those in the template, set this value to be true .

UpdateJob

Update a single job or template.

Request

Element Name	Type	Description
ApplicationReference	String	The unique reference of the containing application.
Username	String[]	An array of users that will be allocated the job.
Job	UpdateJobSoap	

DeleteJobsById

Changes the status for a set of jobs to Deleted .

Returns a Boolean value indicating whether the request was successfully completed.

IMPORTANT NOTICE

Any jobs that are currently on a device will be removed.

Request

Element Name	Type	Description
ApplicationReference	String	The unique reference of the containing application.
JobIds	Int[]	An array of the unique job identities that you wish to modify.

GetJobAttachments

Retrieve the attachments for the specified job. Returns a collection of the [attachments](#).

Request

Element Name	Type	Description
ApplicationReference	String	The unique reference of the containing application.
JobId	Int	The unique identifier of the job you want to return the attachments for.

GetJobsByIds

Retrieve a collection of jobs using their unique identifier.

SUGGESTION

By default, all job attachments are returned in the result set. To increase the speed of the response, set `IncludeAttachments` to `false`. The attachments then won't be included into the response.

If the attachments are a requirement, you can defer the retrieval of the attachments to a background task using `GetJobAttachments`.

Request

Element Name	Type		Description
ApplicationReference	String		The unique reference of the containing application.
JobIds	Int[]		An array of the unique job identities that you wish to modify.
IncludeAttachments	Boolean	[Optional]	Specify whether the jobs attachments will be returned in the result set.

GetJobsByQuery

Query for specific jobs based on a set of criteria. Returns a collection of **jobs**.

Request

Element Name	Type	Description
ApplicationReference	String	The unique reference of the containing application.
Query	QuerySoap	Defines your search parameters; what you are searching for, how to order your results and defines the range of results to return.

Search by properties

- Id
- Reference
- Title
- DateCreated
- DateModified
- DispatchDate
- DueDate
- CurrentStatus
- ParentId
- IsTemplate
- Address
- Tags
- Any available field, simply refer to the field's name, e.g. Account-Number

ResetDataForJob

Allows you to reset the data for all the allocated users for a specific job. Returns a Boolean value indicating whether the request was successfully completed.

IMPORTANT NOTICE

Performing a data reset may result in loss of data. If the end-user has made changes to a job, and those changes have not yet been submitted, that information will be lost without notice.

Request

Element Name	Type	Description
ApplicationReference	String	The unique reference of the containing application.
JobReference	String	The unique reference of the job to reset.

Settings

GetSettings

Retrieve a collection of all the API **settings**.

NOTE

The request for this API operation does not require any additional parameters.

GetSettingByName

Retrieve a single API **setting**.

Request

Element Name	Type	Description
SettingName	String	The unique identifier for the setting you are looking for.

UpdateSettings

Update a collection of settings using a key-value pair. Returns a `Boolean` value indicating whether the request was successfully completed.

Request

Element Name	Type		Description
Key	String		The unique identifier for the setting to update.
Name	String	[Obsolete]	
Value	String		A string representation of the new setting value.
Category	String	[Obsolete]	
Type	String	[Obsolete]	

Utilities

GetSystemInformation

Can be used to perform a ping against the AllOnMobile services. The method also provides the current API version, latest build date, as well as basic information regarding the account calling the service.

NOTE

The request for this API operation does not require any additional parameters.

UsernameExists

Check if a username already exists within the AllOnMobile. Returns a Boolean value indicating whether the username already exists.

Request

Element Name	Type	Description
Username	String	The unique identifier of the account you wish to check.

ValidateUserAccount

Validates the username/password combination of a selected user within AllOnMobile. Returns the **user account** if validation is successful.

IMPORTANT NOTICE

If validation fails past the maximum allowed limit (adjustable via settings), the user account will be modified and placed into a Locked state.

Request

Element Name	Type	Description
Username	String	The unique identifier of the account you wish to validate.
Password	String	The account's password.

Object Types

- [ApplicationSoap](#)
- [SettingSoap](#)
- [UserSoap](#)
- [CoordinateSoap](#)
- [JobSoap](#)
 - [AttachmentSoap](#)
 - [GeoCodeSoap](#)
- [JobSoapBasic](#)
 - [JobSoapField](#)
 - [JobSoapField.Data](#)
 - [JobSoapField.Parameters](#)
 - [JobSoapField.Options](#)
 - [JobSoapAttachment](#)
 - [WorkLocationSoap](#)
- [CreateJobSoap](#)
 - [CreateJobSoapField](#) [Inherits [JobSoapField](#)]
 - [CreateJobSoapAttachment](#) [Inherits [AttachmentSoap](#)]
 - [CreateJobSoapWorkLocation](#) [Inherits [WorkLocationSoap](#)]
 - [CreateJobSoapGeoCode](#) [Inherits [GeoCodeSoap](#)]
- [CreateJobFromTemplateSoap](#)
 - [CreateJobFromTemplateSoapField](#)
 - [CreateJobFromTemplateSoapAttachment](#) [Inherits [AttachmentSoap](#)]
 - [CreateJobFromTemplateSoapWorkLocation](#) [Inherits [WorkLocationSoap](#)]
 - [CreateJobFromTemplateSoapGeoCode](#) [Inherits [GeoCodeSoap](#)]
- [UpdateJobSoap](#)
 - [UpdateJobSoapField](#)
 - [UpdateJobSoapAttachment](#) [Inherits [AttachmentSoap](#)]
 - [UpdateJobWorkSoapLocation](#) [Inherits [WorkLocationSoap](#)]
 - [UpdateJobSoapGeoCode](#) [Inherits [GeoCodeSoap](#)]
- [QuerySoap](#)
 - [WhereFilterSoap](#)
 - [WhereFilterSoap.Operator](#)
 - [OrderByFilterSoap](#)

ApplicationSoap

Element Name	Type		Description
Name	String		Friendly display name for the application.
Reference	String		Unique reference for the application. Used within the API for application specific operations.
IsReadOnly	Boolean	[Obsolete]	
ApplicationCode	String		The unique code that users will have to enter on the AllOnMobile app to access the application.

SettingSoap

Element Name	Type		Description
Key	String		Unique identifier for the setting.
Name	String		Friendly display name.
Value	String		The setting's value.
Category	String	[Obsolete]	
Type	String		String representation of the settings type. Possible values include but not limited to: <ul style="list-style-type: none">• Boolean• String• Int• Url• Password

UserSoap

Element Name	Type	Description
Id	String	The unique identifier for the user account. Generated by AllOnMobile.
Username	String	The unique account name that is used for logging into AllOnMobile.
DisplayName	String	The user friendly display name for the account.
IsAdministrator	String	Indicates whether the account holds administrator rights.
DateCreated	DateTime	The date and time of when the account was created.
DateModified	DateTime	The last date and time when the account was updated.
LastLoginDate	DateTime	The date and time of when the account was last accessed.
FailedLoginCount	Int	Indicates the number of times the account has failed a validation attempt. This value is reset once the account is successfully validated or when the account is unlocked using the <code>UnlockUserAccount</code> operation.
AccountIsLocked	Boolean	Indicates whether the account is locked.
LastLockedOutDate	DateTime	A date and time indicating when the account was last locked.
LastKnownCoordinates	CoordinateSoap	[Reserved for future use]

CoordinateSoap

Element Name	Type	Description
Coordinates	String	String representation for a latitude and longitude.
DateRecorded	String	Date and time the coordinates were recorded.

JobSoap

NOTE

This type inherits `JobSoapBasic` to provide more basic information regarding a job. This type is primarily used for either creating or updating a job and template.

Element Name	Type	Description
Fields	<code>JobSoapField[]</code>	A collection of fields associated with the job.
Attachments	<code>AttachmentSoap[]</code>	A collection of attachments that the end user can view on the AllOnMobile app or has taken whilst out in the field.
GeoCodes	<code>GeoCodeSoap[]</code>	A collection of Geo-coordinates for either predefined locations or custom pointers created on the device.

AttachmentSoap

NOTE

Inherent type for Attachment related types found within the API.

Element Name	Type	Description
Id	String	The unique identifier for the attachment.
Data	String	Base64 string value of the attachment.
Comment	String	Additional comments or notes associated with the attachment.
Type	String	Mime-type describing the attachment.
Latitude	String	Latitude of where the attachment was either taken, or added.
Longitude	String	Longitude of where the attachment was either taken, or added

GeoCodeSoap

NOTE

Inherent type for GeoCode related types found within the API.

Element Name	Type	Description
Comment	String	Additional comments or notes belonging to the coordinates.
Latitude	String	The latitude belonging to the custom location.
Longitude	String	The longitude belonging to the custom location.

JobSoapBasic

Element Name	Type		Description
Id	String		Unique identifier for the job. This is automatically generated by AllOnMobile.
Reference	String		The reference of the job. The reference can be used to store an external system identifier. If the reference is left blank, the job will be used as a template.
Title	String		The name, or title of the job.
Tags	String[]		A collection of tags that can be used to either describe or categorise a job or template.
DateCreated	DateTime		The date and time when the job was created.
DateModified	DateTime		The date and time indicating when the job was last modified.
DispatchDate	DateTime		The date and time that the job will be dispatched to a device. If the dispatch date is Null, the job will be held indefinitely on the Bridge until a dispatch date is assigned.
DueDate	DateTime		The date and time for when a job is due to be completed by an end-user.
IconResourceKey	String	[Obsolete]	
IsPublished	Boolean	[Obsolete]	
CurrentStatus	String		The current status of the job. Possible values: <ul style="list-style-type: none"> Created Allocated

			<ul style="list-style-type: none"> • Received • Completed • Deleted
ConfirmSubmit	Boolean	[Obsolete]	
IsDeleted	Boolean	[Deprecated]	
CompletedBy	String		The username of the account that completed the job.
ParentId	Int		Unique identifier for the parent job or template that was used to create this job.
DependencyKey	String		A dependency key allows for a parent-child relationship with regards to how they are sent to a device. Jobs dependent on the parent being completed can be held on the Bridge until the Rules Engine releases them using the Release any dependent Jobs action.
IsTemplate	Boolean		A Boolean value indicating whether the job is a template.
WorkLocation	WorkLocationSoap		
UsersOnJob	String[]		A collection of user accounts assigned to the job.

JobSoapField

Element Name	Type		Description
Name	String		Unique identifier of the field.
FieldType	String		String representation of the type of field. A list of fields can be found under Model definitions > Field types .
Data	String		Default value of the field. Can also be used to populate the field using a database.
DisplayName	String		Friendly display name of the field.
Order	Int	[Optional]	Integer value that indicates the position of the field within the job.
Parameters	String	[Deprecated]	A field and value pair of custom properties
Options	String	[Optional]	A field and value pair of custom properties

JobSoapField.Data

As mentioned before, the data property can be used to populate a field using a database.

- Supported field types:
 - TextBox
 - Divider
 - CheckBox
 - RadioList
 - DropDownList
- Example:

```
var dropdownlistField = new JobSoapField
{
    FieldType = "DropDownList"
    Data = "[[SELECT FirstName, LastName FROM Employees]]"
};
```


JobSoapField.Parameters

IMPORTANT NOTICE

This property has been `Deprecated` . No further additions will be made.

Length

- An `Integer` value that indicates the maximum number of characters allowed within a field.
- Supported field types:
 - `TextBox`
- Example:

```
var textBoxField = new JobSoapField
{
    FieldType = "TextBox"
    Parameters = "Length: 255;"
};
```

Values

- A comma separated list of items that will appear within either of the following field types:
 - `CheckBox`
 - `RadioList`
 - `DropDownList`
- Example:

```
var dropdownlistField = new JobSoapField
{
    FieldType = "DropDownList"
    Parameters = "Values: Item-1, Item-2, Item-3, Item-4;"
};
```

Type

- Describes the mime-type of the attachment within the field.
- Supported field types:
 - Attachment
 - DecoratedImage
 - Photo
- Example:

```
var attachmentField = new JobSoapField
{
    FieldType = "Attachment"
    Parameters = "Type: application/pdf;",
    Data = "..."
};
```

- When used in conjunction with the `Photo` field, the `type` parameter is used to determine the device's capture mode; possible values:
 - Default
 - PhotoOnly
 - VideoOnly
- Example:

```
var photoField = new JobSoapField
{
    FieldType = "Photo"
    Parameters = "Type: PhotoOnly;"
};
```

JobSoapField.Options

IsRequired

- A Boolean indication whether the field should be mandatory on the device.
- Supported field types:
 - TextBox
 - CheckBox
 - DropDownList
 - Radio
 - Date
 - Time
 - Barcode
 - Map
 - Signature
 - DecoratedImage
- Example:

```
var textBoxField = new JobSoapField
{
    FieldType = "TextBox"
    Options = "IsRequired: TRUE;"
};
```

KeyboardType

- Enum value of possible keyboard types that can be shown onscreen to a user.
 - Standard
 - StandardNumeric
 - Url
 - Numeric
- Supported field types:
 - TextBox
- Example:

```
var textBoxField = new JobSoapField
{
    FieldType = "TextBox"
    Options = "KeyboardType: Numeric;"
};
```

Visibility-Default

- A Boolean value indicating whether the field should be shown by default.
- Default value: true

Visibility-Formulae

- A SQL statement that can be used to alternate the visibility of a field.
- Used in conjunction with the `Visibility-Default` parameter.
- Example:

```
var textBoxField = new JobSoapField
{
    FieldType = "TextBox"
    Options = "Visibility-Default: FALSE; Visibility-Formulae: [[SELECT
EXISTS(SELECT 1 FROM Employees WHERE LastName = 'Smith')]];"
};
```

Validation-Formulae

- A SQL statement that can be used to check whether a field should be considered valid.
- Example:

```
var textBoxField = new JobSoapField
{
    FieldType = "TextBox"
    Options = "Validation-Formulae: [[SELECT LENGTH('${Account-Number}') >= 6]]"
};
```

Validation-Message

- A user friendly error message that'll be shown to on the app if the field fails validation.
- Used in conjunction with the `Validation-Formulae` parameter.
- Example:

```
var textBoxField = new JobSoapField
{
    FieldType = "TextBox"
    Options = "Validation-Message: The account number must be minimum of 6 chars."
};
```

JobSoapAttachment

NOTE

This type inherits AttachmentSoap .

Element Name	Type	Description
DateCaptured	String	Date and time when the attachment was captured on a device.
JobFieldName	String	The name of the associated field.

WorkLocationSoap

NOTE

Inherent type for WorkLocation related types found within the API.

Element Name	Type	Description
Address	String	String representation of the coordinates.
Latitude	String	The latitude belonging to the address.
Longitude	String	The longitude belonging to the address.

CreateJobSoap

Element Name	Type		Description
Reference	String		The reference of the job. The reference can be used to store an external system identifier. If the reference is left blank, the job will be used as a template.
Title	String		The name, or title of the job.
Tags	String[]		A collection of tags that can be used to either describe or categorise a job or template.
DispatchDate	DateTime		The date and time that the job will be dispatched to a device. If the dispatch date is Null , the job will be held indefinitely on the Bridge until a dispatch date is assigned.
DispatchDateSpecified	Boolean		Helps the API determine if any changes will need to be applied to the dispatch date. If the DispatchDate is left Null and this Boolean is set to true , then the job will be held indefinitely on the Bridge.
DueDate	DateTime		The date and time for when a job is due to be completed by an end-user.
IconResourceKey	String	[Obsolete]	
ParentId	Int		Unique identifier for the parent job or template that was used to create this job.
DependencyKey	String		A dependency key allows for a parent-child relationship with regards to how they are sent to a device. Jobs

			dependent on the parent being completed can be held on the Bridge until the Rules Engine releases them using the Release any dependent Jobs action.
ConfirmSubmit	Boolean	[Obsolete]	
Fields	JobSoapField[]		A collection of fields that will be assigned to this job.
Attachments	AttachmentSoap[]		A collection of attachments that can be viewed by the end-user on the AllOnMobile app.
WorkLocation	WorkLocationSoap		The work location is displayed to the end-user on their job list to allow them to quickly determine where the work needs to take place. The work location is also available within the job, via an interactive map.
GeoCodes	GeoCodeSoap[]		Similar to a work location, you can specify additional map pointers to be displayed within the job.

CreateJobFromTemplateSoap

Element Name	Type		Description
Reference	String		The reference of the job. The reference can be used to store an external system identifier. If the reference is left blank, the job will be used as a template.
Title	String		The name, or title of the job.
Tags	String[]		A collection of tags that can be used to either describe or categorise a job or template.
DispatchDate	DateTime		The date and time that the job will be dispatched to a device. If the dispatch date is Null , the job will be held indefinitely on the Bridge until a dispatch date is assigned.
DispatchDateSpecified	Boolean		Helps the API determine if any changes will need to be applied to the dispatch date. If the DispatchDate

			is left Null and this Boolean is set to true, then the job will be held indefinitely on the Bridge.
DueDate	DateTime		The date and time for when a job is due to be completed by an end-user.
IconResourceKey	String	[Obsolete]	
ParentId	Int		Unique identifier for the parent job or template that was used to create this job.
DependencyKey	String		A dependency key allows for a parent-child relationship with regards to how they are sent to a device. Jobs dependent on the parent being completed can be held on the Bridge until the Rules Engine releases them using the Release any dependent Jobs action.
ConfirmSubmit	Boolean	[Obsolete]	[Obsolete]
Fields	CreateJobFromTemplateSoapField[]		A collection of fields that will

			be assigned to this job.
Attachments	AttachmentSoap[]		A collection of attachments that can be viewed by the end-user on the AllOnMobile app.
WorkLocation	WorkLocationSoap		The work location is displayed to the end-user on their job list to allow them to quickly determine where the work needs to take place. The work location is also available within the job, via an interactive map.
GeoCodes	GeoCodeSoap[]		Similar to a work location, you can specify additional map pointers to be displayed within the job.

CreateJobFromTemplateSoapField

Element Name	Type	Description
Name	String	The name of the field to override.
Data	String	The replacement value for this field.

UpdateJobSoap

NOTE

To update an existing template, ensure that the title of the template is included and the reference property is left blank.

Element Name	Type		Description
Reference	String		Used to locate the job that needs to be updated.
Title	String	[Optional]	The name, or title of the job.
Tags	String[]	[Optional]	A collection of tags that can be used to either describe or categorise a job or template.
DispatchDate	DateTime	[Optional]	The date and time that the job will be dispatched to a device. If the dispatch date is Null , the job will be held indefinitely on the Bridge until a dispatch date is assigned.
DispatchDateSpecified	Boolean	[Optional]	Helps the API determine if any changes will need to be applied to the dispatch date. If the DispatchDate is left Null and this Boolean is set to true , then the job will be held indefinitely on the Bridge.
DueDate	DateTime	[Optional]	The date and time for when a job is due to be completed by an end-user.
IconResourceKey	String	[Obsolete]	
ParentId	Int	[Optional]	Unique identifier for the parent job or template that was used to create this

			job.
DependencyKey	String		A dependency key allows for a parent-child relationship with regards to how they are sent to a device. Jobs dependent on the parent being completed can be held on the Bridge until the Rules Engine releases them using the Release any dependent Jobs action.
Status	String		Change the current status of the job. Possible values: <ul style="list-style-type: none"> • Created • Allocated • Received • Completed • Deleted
ConfirmSubmit	Boolean	[Obsolete]	
Fields	UpdateJobSoapField[]	[Optional]	A collection of fields that will be assigned to this job.
Attachments	AttachmentSoap[]	[Optional]	A collection of attachments that can be viewed by the end-user on the AllOnMobile app.
WorkLocation	WorkLocationSoap	[Optional]	The work location is displayed to the end-user on their job list to allow them to quickly determine where the work needs to take place. The work location is also available within the job, via an interactive map.
GeoCodes	GeoCodeSoap[]	[Optional]	Similar to a work location, you can specify additional map pointers to be displayed within the job.

UpdateJobSoapField

NOTE

This type inherits from [JobSoapField](#).

IMPORTANT NOTICE

Whilst the `UpdateMethod` is optional, if a set of fields or the same set of existing fields are provided within the request, and the `UpdateMethod` isn't included, all existing fields within the job will automatically be overwritten by the submitted fields.

Element Name	Type		Description
UpdateMethod	String	[Optional]	Indicates to the API how you wish to handle the update to the fields.

UpdateMethod

- Create
 - Adds an additional field to the job without modifying the existing fields.
- Update
 - Adds an existing field within the job without modifying the existing fields.
- Delete
 - Removes an existing field within the job without modifying the existing fields.

QuerySoap

Element Name	Type		Description
Where	WhereFilterSoap[]		A collection of search filters. Define which properties or fields to search by.
OrderBy	OrderByFilterSoap[]		A collection of OrderBy instructions
Skip	Int	[Optional]	The seed of the result set, defaulted to 0 .
Take	Int	[Optional]	Maximum number of results to be returned. Upper limit of 1000 ; default limit set to 100 .

WhereFilterSoap

Element Name	Type	Description
AndOr	String	Specify how the filter is linked to the previous filters. Defaults to And . Possible values: <ul style="list-style-type: none">• And• Or
Field	String	Name of the property or field to filter by.
Operator	String	How to perform the comparison. See the list of available operators.
Value	String	The comparison value.

WhereFilterSoap.Operator

Allowed operators when performing a search within AllOnMobile.

- IsNull
- IsNotNull
- IsEqual
- IsNotEqual
- Contains
- DoesNotContain
- GreaterThan
- GreaterThanOrEqual
- LessThan
- LessThanOrEqual
- AssignedToUser
- NotAssignedToUser

Example:

Locate all the jobs and template where the Reference Contains 'AllOnMobile' and was created before 1st January 2016.

The expected result set would contain the total number of matching records and a collection of the top 100 results (using the default Skip=0 and Take=100).

```
<s:Envelope xmlns:soapenv="..." xmlns:ser="...">
  <s:Header>...</s:Header>
  <s:Body>
    <ser:GetJobsByQuery>
      <ser:request>
        <ApplicationReference>...</ApplicationReference>
        <Query>
          <Where>
            <!--Zero or more repetitions:-->
            <WhereFilterSoap>
              <Operator>Contains</Operator>
              <Field>Reference</Field>
              <Value>AOM</Value>
            </WhereFilterSoap>
            <WhereFilterSoap>
              <Operator>LessThan</Operator>
              <Field>DateCreated</Field>
              <Value>01/01/2016</Value>
            </WhereFilterSoap>
          </Where>
        </Query>
      </ser:request>
    </ser:GetJobsByQuery>
  </s:Body>
</s:Envelope>
```

OrderByFilterSoap

Element Name	Type		Description
Field	String		Name of the property or field to sort the results on.
SortDirection	String	[Optional]	Specify the direction of the sort. Ascending is the default order. Possible values: <ul style="list-style-type: none">• Ascending , Asc• Descending , Desc