

Dotloop External API Developer Guide

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Introduction

The dotloop API provides access to the most important pieces of data from dotloop. This data can be used for business reporting and integration with other systems. Our goal is to provide a secure and comprehensive platform for interacting with dotloop data.

The API allows you to access all loop information.

Since the API is an application programming interface, it's necessary to have programming experience to use the API. This documentation assumes you are a programmer familiar with consuming RESTful web services. All responses are JSON unless otherwise noted.

How to Use the API

Let's consider a simple example of retrieving a list of loops within a brokerage. We would follow the following steps:

1. Use the dotloop account management screens to generate an API key
 - a. This API key will be sent in an HTTP header along with all API calls
2. Call the `/profile` endpoint to get a list of dotloop profiles
 - a. Parse the JSON response and choose the appropriate profile id for the brokerage
3. Call the `/profile/{id}/loop` endpoint to get a list of loops for this profile
 - a. Parse the JSON response and retrieve

To demonstrate we will pretend that we generated an API key for use and it is 1234-5678-90123. Using curl on a UNIX command line we could perform the following steps:

```
curl --H "Authorization: Bearer 1234-5678-90123" https://www.dotloop.com/my/api/v1_0/profile
```

We would receive a response similar to this (formatted for readability):

[

```

{
  "profileId": 1234,
  "companyName": "Demo Brokerage",
  "phoneNumber": "5131234567",
  "faxNumber": "",
  "name": "Demo Brokerage",
  "address1": "123 Main St.",
  "address2": "",
  "suite": "",
  "city": "Cincinnati",
  "state": "OH",
  "zipcode": "45203",
  "active": true,
  "deleted": false,
  "profileType": "BROKERAGE"
},
{
  "profileId": 4234,
  "name": "Personal Profile",
  "active": true,
  "deleted": false,
  "profileType": "INDIVIDUAL"
}
]

```

In this case, we would be interested in pulling all loops from profile 1234, the Brokerage account. Loops can be retrieved with the following call:

```
curl --H "Authorization: Bearer 1234-5678-90123" https://www.dotloop.com/my/api/v1_0/profile/1234/loop
```

The response would look something like this (formatted for readability):

```

[
  {
    "loopName": "342 Elm St.",
    "loopId": 6104,
    "loopStatus": "Private",
    "loopTags": [],
    "createdBy": 324245,
    "lastUpdated": "20140723T08:44:1104:00",
    "loopViewId": 35252
  },
  {
    "loopName": "463 Walnut St.",
    "loopId": 45253,
    "loopStatus": "Private",
    "loopTags": [
      {
        "tagId": 137,
        "tagName": "Lease/Rental"
      }
    ],
    "createdBy": 235612,
    "lastUpdated": "20140828T12:01:3704:00",
    "loopViewId": 838342
  }
]

```

From this response, a client can pull the names of all loops

A Note on Resource Paths

All API resources are prefixed with https://www.dotloop.com/my/api/v1_0/, but for clarity, we will often omit this prefix when discussing an endpoint. For example, when we discuss the /profile endpoint we are really talking about the URI https://www.dotloop.com/my/api/v1_0/profile.

Exploring the API with curl

If you have access to a UNIX shell with curl (for example from OS X or Linux) you can experiment with the GET calls from the command line:

```
curl -H "Authorization: Bearer xxxxx" https://www.dotloop.com/my/api/v1_0/profile/4120/loop
```

What's a Profile?

A dotloop account has one or more profiles. For example, a user might have admin access to a brokerage profile, an office profile, and a personal profile. Each profile has its own set of loops and templates. Most calls to the dotloop API require you to specify a profile.

Loop ID vs Loop View ID

When specifying a loop within the dotloop API you will always use a loop view id, not a loop id. In fact, just forget that the loop id exists. We know it's confusing, we're sorry! There's a technical reason why this is but it's very boring. We'll spare you the details.

OAuth Security

The dotloop API uses OAuth 2.0 for authentication. We use the two-legged flow intended for system-to-system authentication.

A dotloop user with access to the API feature can generate an API key within the dotloop account management screens. This API key is passed in with each call to the dotloop API.

It is important to remember that the API key should be treated with the same level of security as your dotloop password. If your API key is ever compromised, a new key can be issued through the dotloop account management.

Use the API key to access dotloop resources

To authenticate each API call simply add an HTTP header with your API key:

```
Authorization: Bearer <<API KEY>>
```

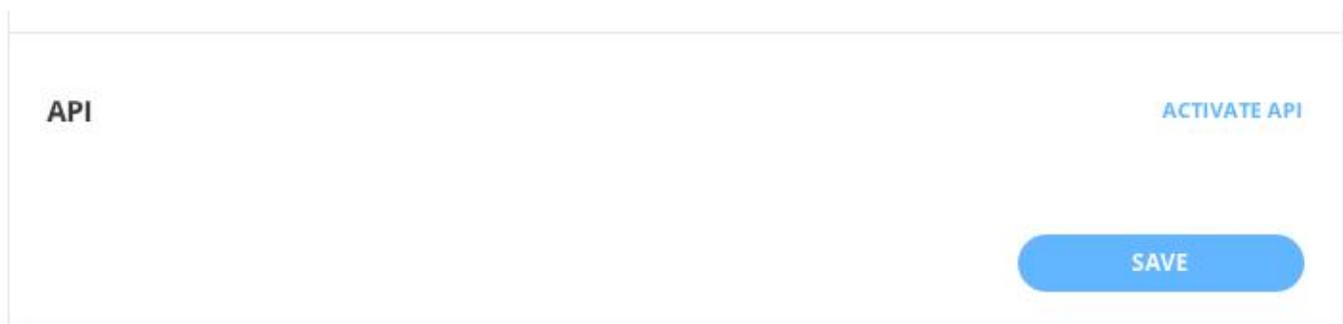
For example, to authenticate using curl if your API key was 1234-5678-90123 you would use the following command:

```
curl -H "Authorization: Bearer 1234-5678-90123" https://www.dotloop.com/my/api/v1_0/profile
```

Getting an API key

To get an API key your dotloop user must have access to the API functionality. To generate a key navigate to the "My Account" link on the profile list in dotloop.

If you have API access you should see the following at the bottom of the screen:



If you click the Activate API link a key will be generated:

API

DEACTIVATE API

YOUR API KEY IS: 9d10a532-0be9-4125-a8b7-2ae8384d0d29 [CHANGE KEY](#)

[LEARN WHAT THE API CAN DO](#)

SAVE

It is important that you protect your key as if it were your dotloop password. If your API key is compromised you can deactivate it and get a new key by clicking the "Change Key" link.

List of REST Endpoints

The following endpoints are available in dotloop API:

Method	Resource	Description
GET	/profile	get list of profiles
GET	/profile/{profileId}/loop	get list of loops
GET	/profile/{profileId}/loop/{loopViewId}	get basic loop information
GET	/profile/{profileId}/loop/{loopViewId}/detail	get loop details
GET	/profile/{profileId}/loop/{loopViewId}/activity	get loop activity
GET	/profile/{profileId}/loop/{loopViewId}/document	get loop document list
GET	/profile/{profileId}/loop/{loopViewId}/document/{documentId}/{documentName}.pdf	get a PDF document
GET	/profile/{profileId}/loop/{loopViewId}/participant	get a list of loop participants
GET	/profile/{profileId}/loop/{loopViewId}/task	get a list of loop tasks
GET	/profile/{profileId}/loop/{loopViewId}/folder	get a list of folders in a loop
GET	/profile/{profileId}/employee	get a list of users in a profile
GET	/profile/{profileId}/document/{documentId}/activity	get activity details for a document
GET	/profile/{profileId}/person	get list of contacts
GET	/profile/{profileId}/person/{contactId}	get details for a contact
GET	/profile/{profileId}/admin	get list of admins for a profile

Endpoint Reference

Profiles

Get all profiles associated with user

URL

www.dotloop.com/my/api/v1_0/profile

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token

Sample Response

```
[
  {
    "profileId": 294625,
    "name": "Profile 1",
    "userId": 0,
    "active": true,
    "deleted": false,
    "profileType": "INDIVIDUAL"
  },
  {
    "profileId": 294626,
    "name": "Profile 2",
    "userId": 0,
    "active": true,
    "deleted": false,
    "profileType": "OFFICE"
  }
]
```

Loops

Returns a list of up to 50 summaries for loops in a profile. To get the next 50 increment the batch number.

URL

www.dotloop.com/my/api/v1_0/profile/{profileId}/loop

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token
profileId	path	The profile context for this request
batchNumber	query	Increment the batch number to page through results. The default is 1.
batchSize	query	Number of records to return. The maximum and default value is 50

statusIds	query	<p>filter loops by status id:</p> <table border="1"> <thead> <tr> <th>id</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Private Listing</td> </tr> <tr> <td>2</td> <td>Active Listing</td> </tr> <tr> <td>3</td> <td>Under Contract</td> </tr> <tr> <td>4</td> <td>Sold</td> </tr> <tr> <td>5</td> <td>Leased</td> </tr> <tr> <td>6</td> <td>Archived</td> </tr> <tr> <td>7</td> <td>Pre-Listing</td> </tr> <tr> <td>8</td> <td>Pre-Offer</td> </tr> <tr> <td>9</td> <td>New</td> </tr> <tr> <td>10</td> <td>In-Progress</td> </tr> <tr> <td>11</td> <td>Done</td> </tr> </tbody> </table>	id	description	1	Private Listing	2	Active Listing	3	Under Contract	4	Sold	5	Leased	6	Archived	7	Pre-Listing	8	Pre-Offer	9	New	10	In-Progress	11	Done
id	description																									
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8	Pre-Offer																									
9	New																									
10	In-Progress																									
11	Done																									
complianceStatusIds	query	filter loops by compliance status id (ask support for compliance status id values, if needed)																								
tagIds	query	filter loops by tag id (ask support for tag id values, if needed)																								
sortBy	query	<p>sort loops by sortBy id:</p> <table border="1"> <thead> <tr> <th>id</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>dotloop default</td> </tr> <tr> <td>2</td> <td>agent name</td> </tr> <tr> <td>3</td> <td>address</td> </tr> <tr> <td>4</td> <td>last updated date</td> </tr> <tr> <td>5</td> <td>mls number</td> </tr> <tr> <td>6</td> <td>purchase price</td> </tr> <tr> <td>7</td> <td>listed date</td> </tr> <tr> <td>8</td> <td>expiration date</td> </tr> <tr> <td>9</td> <td>closing date</td> </tr> <tr> <td>10</td> <td>submitted for review date</td> </tr> </tbody> </table>	id	description	1	dotloop default	2	agent name	3	address	4	last updated date	5	mls number	6	purchase price	7	listed date	8	expiration date	9	closing date	10	submitted for review date		
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9	closing date																									
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sortDirection	query	<p>id of the sort direction:</p> <table border="1"> <thead> <tr> <th>id</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>descending</td> </tr> <tr> <td>1</td> <td>ascending</td> </tr> </tbody> </table>	id	description	0	descending	1	ascending																		
id	description																									
0	descending																									
1	ascending																									
searchQuery	query	free-form text search, can be used for loop name, address, agent name, mls number, or tag name																								
tagNames	query	filter loops by comma-delimited list of tags names																								
createdByMe	query	shows only loops created by user associated with API token (true/false). Default is false.																								

Sample Response

```
[
  {
    "loopName": "Atturo Garay 123Main Street, Chicago, IL 60605",
    "loopId": 34242,
    "loopStatus": "Archived",
    "loopTags": [
      {
        "tagId": 2,
        "tagName": "Buying",
        "profileId": 4533
      }
    ],
    "createdBy": 2097622,
    "lastUpdated": "2013-12-03T11:38:22-05:00",
    "loopViewId": 76046,
    "transactionType": "Listing for Sale"
  },
  {
    "loopName": "Atturo Garay 3059main, chicago, IL 60614",
    "loopId": 34308,
    "loopStatus": "Archived",
    "loopTags": [
      {
        "tagId": 2,
        "tagName": "Buying",
        "profileId": 69020
      }
    ],
    "createdBy": 2097622,
    "lastUpdated": "2013-12-03T11:46:16-05:00",
    "loopViewId": 80269,
    "transactionType": "Purchase"
  }
]
```

Loop Summary

Details of loop view

URL

www.dotloop.com/my/api/v1_0/profile/{profileId}/loop/{loopViewId}

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token
profileId	path	The profile context for this request
loopViewId	path	The loop view id returned in the loop call.

Sample Response

```
[
  {
    "loopName": "buyers",
    "loopId": 274231,
    "loopStatus": "Private",
```

```
"loopTags": [
  0
],
"createdBy": 2571509,
"lastUpdated": "20140728T16:11:5604:00",
"loopViewId": 404271,
"transactionType": "Purchase"
}
]
```

Loop Details

Retrieve the loop details for a single loop. Empty fields are not included in the details. Callers should not expect specific properties to always be included.

URL

www.dotloop.com/my/api/v1_0/profile/{profileId}/loop/{loopViewId}/detail

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token
profileId	path	The profile context for this request
loopViewId	path	The id of the loop

Sample Response

```
{
  "loopId": 15751,
  "sections": {
    "Listing Brokerage": {
      "postalCode": "45242",
      "name": "DotLoop Final Review",
      "stateOrProvince": "OH",
      "streetName": "Lake Forest Dr.",
      "streetNumber": "4445",
      "officePhone": "",
      "city": "Cincinnati"
    },
    "Buying Brokerage": {
      "postalCode": "90210",
      "name": "Bob's Buying Brokerage",
      "stateOrProvince": "CA",
      "streetName": "Mockingbird Ln",
      "streetNumber": "1313",
      "suite": "#1",
      "city": "LA"
    },
    "Property Address": {
      "mlsNumber": "1234567890",
      "propertyAddressCountry": "USA",
      "postalCode": "32123",
      "stateOrProvince": "KS",
      "streetName": "manor ",
      "streetNumber": "1234",
      "country": "USA",
      "city": "lauderdale"
    }
  }
}
```

```

    },
    "Financials": {
      "comissionRate": "7%",
      "earnestMoneyHeldBy": "Steve",
      "originalListingPrice": "500,000",
      "currentPrice": "425000",
      "purchasePrice": "400,000"
    }
  }
}
}

```

Loop Activities

Retrieves the activity log for a single loop.

URL

`www.dotloop.com/my/api/v1_0/profile/{profileId}/loop/{loopViewId}/activity`

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token
profileId	path	The profile context for this request
loopViewId	path	The id of the loop
batchNumber	query	Increment the batch number to page through results. The default is 1.
batchSize	query	Number of records to return. The maximum and default value is 50

Sample Response

```

[
  {
    "message": "K Fouts (Admin for DotLoop Final Review) viewed document <activity
action=\"contracteditor\" viewId=\"15751\" documentId=\"129497\">Agency Disclosure Statement -
Seller<Vactivity>",
    "activityDate": "2014-01-09T13:10:14-05:00"
  },
  {
    "message": "K Fouts (Admin for DotLoop Final Review) viewed document <activity
action=\"contracteditor\" viewId=\"15751\" documentId=\"129493\">ThaiCatering<Vactivity>",
    "activityDate": "2014-01-09T13:10:14-05:00"
  },
  {
    "message": "K Fouts (Admin for DotLoop Final Review) viewed document <activity
action=\"contracteditor\" viewId=\"15751\" documentId=\"129493\">ThaiCatering<Vactivity>",
    "activityDate": "2014-01-09T13:08:39-05:00"
  },
  {
    "message": "K Fouts (Admin for DotLoop Final Review) viewed document <activity
action=\"contracteditor\" viewId=\"15751\" documentId=\"129497\">Agency Disclosure Statement -
Seller<Vactivity>",
    "activityDate": "2014-01-09T13:08:27-05:00"
  },
]

```

```

{
  "message": "K Fouts (Admin for DotLoop Final Review) viewed document <activity
action=\"contracteditor\" viewId=\"15751\" documentId=\"129497\">Agency Disclosure Statement -
Seller<Vactivity>",
  "activityDate": "2014-01-09T13:07:43-05:00"
},
{
  "message": "K Fouts (Admin for DotLoop Final Review) viewed document <activity
action=\"contracteditor\" viewId=\"15751\" documentId=\"129493\">ThaiCatering<Vactivity>",
  "activityDate": "20140109T13:07:4305:00"
},
{
  "message": "K Fouts (Admin for DotLoop Final Review) viewed document <activity
action=\"contracteditor\" viewId=\"15751\" documentId=\"129497\">Agency Disclosure Statement -
Seller<Vactivity>",
  "activityDate": "2014-01-09T13:07:08-05:00"
}
]

```

Loop Documents

Retrieve a list of documents within a loop

URL

www.dotloop.com/my/api/v1_0/profile/{profileId}/loop/{loopViewId}/document

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token
profileId	path	The profile context for this request
loopViewId	path	The id of the loop

Sample Response

```

[
  {
    "loopId": 405260,
    "folderName": "Folder",
    "documentId": 561622,
    "documentName": "Agency Disclosure Statement Seller",
    "signatureVerificationLink": "DL5616224301S",
    "lastModifiedDate": "2014-08-25T18:33:46-04:00",
    "createdDate": "2014-08-25T23:29:31-04:00",
    "sharedWith": [
      "405246",
      "405247",
      "405260"
    ],
    "createdBy": 2462
  },
  {
    "loopId": 405260,

```

```
"folderName": "Folder",
"documentId": 561621,
"documentName": "sfr3",
"signatureVerificationLink": "DL56162131X3D",
"lastModifiedDate": "2014-08-25T18:26:38-04:00",
"createdDate": "2014-08-25T23:37:47-04:00",
"sharedWith": [
  "405246",
  "405247",
  "405260"
],
"createdBy": 2462
}
]
```

Loop Document

Returns a PDF for single document. The parameter "documentName" can be any text, it is provided to let the client choose the file name.

URL

www.dotloop.com/my/api/v1_0/profile/{profileId}/loop/{loopViewId}/document/{documentId}/{documentName}.pdf

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token
profileId	path	The profile context for this request
loopViewId	path	The id of the loop
documentId	path	The id of the document
documentName	path	The name of the document, this is client specified.

Sample Response

No example included. The response will have a content type of application/pdf.

Loop Participants

List of participants in a loop

URL

www.dotloop.com/my/api/v1_0/profile/{profileId}/loop/{loopViewId}/participant

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token
profileId	path	The profile context for this request
loopViewId	path	The id of the loop

Sample Response

```
[
  {
    "name": "New Person",
    "email": "new2_person@email.com",
    "role": "None",
    "participantId": 3600616,
    "memberOfMyTeam": "N"
  },
  {
    "name": "DotLoop Final Review",
    "role": "Managing Broker",
    "memberOfMyTeam": "Y"
  },
  {
    "name": "K Fouts",
    "email": "kfouts@email_address.com",
    "role": "Listing Agent",
    "memberOfMyTeam": "Y"
  }
]
```

Loop Tasks

List of tasks in a loop

URL

www.dotloop.com/my/api/v1_0/profile/{profileId}/loop/{loopViewId}/task

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token
profileId	path	The profile context for this request
loopViewId	path	The id of the loop

Sample Response

```
[
  {
    "name": "Task New",
    "dueDateType": "2013-04-16T00:00:00-04:00",
    "dueDate": "2013-04-16T00:00:00-04:00",
    "createdDate": "2013-04-30T08:32:43-04:00",
    "listName": "My Tasks",
  }
]
```

```
"listId": 208,
"createdBy": 3104719,
"lockedStatus": "N",
"completionStatus": "N"
}
]
```

Loop Folders

List of folders in a loop.

URL

www.dotloop.com/my/api/v1_0/profile/{profileId}/loop/{loopViewId}/folder

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token
profileId	path	The profile context for this request
loopViewId	path	The id of the loop

Sample Response

```
[
  {
    "viewId": 259626,
    "folderId": 314074,
    "name": "Folder",
    "archived": false,
    "minimized": false,
    "folderEmailName": "7f9e7d88c31e49ccbf38199689a7e0ea",
    "lastUpdatedDateISO": "2014-05-27T10:58:21-04:00"
  }
]
```

Employees

List of up to 5000 summarized employees

URL

www.dotloop.com/my/api/v1_0/profile/{profileId}/employee

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token

profileId	path	The profile context for this request
batchNumber	query	Increment the batch number to page through results. The default is 1.
batchSize	query	Number of records to return. The maximum is 5000 and default value is 50
showAdmin	query	Show only admins
showInactive	query	Show inactive employees
includeChild	query	Include employees from child profiles

Sample Response

```
[
  {
    "memberId": 294132,
    "emailAddress": "smurphy@emailaddress.com",
    "firstName": "Scott",
    "lastName": "Murphy",
    "loopsCreated": 4,
    "totalLoops": 5,
    "status": "ACTIVE",
    "isAdmin": "false"
  },
  {
    "memberId": 290767,
    "emailAddress": "rmurphy@emailaddress.com",
    "firstName": "Rob",
    "lastName": "Murphy",
    "loopsCreated": 1,
    "totalLoops": 1,
    "status": "ACTIVE",
    "isAdmin": "false"
  }
]
```

Document Activities

Activities associated with document

URL

www.dotloop.com/my/api/v1_0/profile/{profileId}/document/{documentId}/activity

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token
profileId	path	The profile context for this request
documentId	path	document identifier
batchNumber	query	Increment the batch number to page through results. The default is 1.
batchSize	query	Number of records to return. The maximum and default value is 50

Sample Response

```
[
```

```
{
  "message": "Meyyalagan Chandrasekaran (Admin for DotLoop Final Review) viewed document
<activity action=\"contracteditor\" viewId=\"404271\" documentId=\"560621\">Buyers Sign
here</activity>",
  "activityDate": "2014-08-19T18:44:52-04:00"
},
{
  "message": "Mike Kiburz viewed document <activity action=\"contract-editor\"
viewId=\"404271\" documentId=\"560621\">Buyers Sign here</activity>",
  "activityDate": "2014-07-28T16:49:36-04:00"
}
]
```

Contacts

List of contacts associated with an user

URL

www.dotloop.com/my/api/v1_0/profile/{profileId}/person

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token
profileId	path	The profile context for this request
batchNumber	query	Increment the batch number to page through results. The default is 1.
batchSize	query	Number of records to return. The maximum value is 100 and default value is 20

Sample Response

```
[
  {
    "personId": 3623822,
    "firstName": "Test FirstName",
    "lastName": "Test LastName",
    "email": "FirstLast@test.com"
  },
  {
    "personId": 3603862,
    "firstName": "Test Name",
    "lastName": "Test Name",
    "email": "abc@test.com"
  }
]
```

Contact Details

Get contact details

URL

www.dotloop.com/my/api/v1_0/profile/{profileId}/person/{contactId}

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token
profileId	path	The profile context for this request
contactId	path	The id of the contact

Sample Response

```
[
  {
    "personId": 3603862,
    "firstName": "Brian",
    "lastName": "Erwin",
    "email": "brianerwin@newkyhome.com",
    "homephone": "2138936332",
    "officephone": "1121213656",
    "streetAddress01": "2100 Waterview dr",
    "city": "Richardson",
    "zipOrPostalCode": "75081",
    "fax": "1118655686",
    "stateOrProv": "TX"
  }
]
```

Profile Admins

List of admins associated with profile

URL

www.dotloop.com/my/api/v1_0/profile/{profileId}/admin

Method

GET

Parameters

Name	Location	Description
bearer-token	header	OAuth access token
profileId	path	The profile context for this request
batchNumber	query	Increment the batch number to page through results. The default is 1.
batchSize	query	Number of records to return. The maximum value and default value is 50

Sample Response

```
[
  {
    "memberId": 2629538,
    "emailAddress": "listingAgent@emailaddress.com",
    "firstName": "TestFirstName1",
    "lastName": "TestLastName1",
    "status": "ACTIVE",
  }
]
```

```
"isAdmin": "true"  
},  
{  
  "memberId": 2570270,  
  "emailAddress": "sellingAgent@emailaddress.com",  
  "firstName": "TestFirstName2",  
  "lastName": "TestLastName2",  
  "status": "ENROLLED",  
  "isAdmin": "true"  
}  
]
```