Contact Group API

Reference Guide

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What is the BEMS contactgroup API?

The contactgroup API allows BlackBerry Work and third-party apps to retrieve a user's personal distribution lists from the root personal contacts group in their mailbox. The personal distribution lists include the display name and email address of the user accounts in them.

Requirements: Contactgroup API

- BEMS installed and configured in your organization's environment.
- Mail service configured on your BEMS instance.

Requesting personal distribution lists

BlackBerry Work and third-party apps can retrieve all personal distribution lists from a user's mailbox or personal distribution lists that were created or edited within a period that you specify.

Request format

You must specify the BEMS endpoint in the API. The endpoint specifies where the object address is located.

```
Endpoint: <BEMS FQDN>/api/contactgroup
```

The format for the HTTP Request to retrieve personal distribution lists from a mailbox in BEMS is:

```
POST <BEMS FQDN>/api/contactgroup
<request-header>
<request-body>
```

The following is a sample request header:

```
Content-Type: application/json
X-Good-GD-AuthToken: <GDAuthToken>
```

HTTP response codes

Code	Description
200	New and updated personal distribution lists are successfully retrieved for the user.
400	The request is bad.
404	No personal distribution lists are found for the user.

Retrieving personal distribution lists properties

The following table describes the request body properties that you can include in the contactgroup API when you retrieve personal distribution lists from a user's mailbox.

Property	Type	Description
SinceTs	Timestamp	Specifies the time returned from the last retrieval of the personal distribution list. SinceTs is specified in epoch time format. If you want to retrieve new and updated distribution lists, you must specify the SinceTs to begin searching for records. If the SinceTs is not specified, BEMS retrieves all the personal distribution lists for a user.

Retrieve all personal distribution lists

You can retrieve all of a user's personal distribution lists from the user's mailbox. In the following sample code, an empty request body requests BEMS to retrieve all distribution lists in a user's mailbox.

```
POST /api/contactgroup HTTP/1.1
https://:<BEMS FQDN>:8443/api/contactgroup
Content-Type: application/json
X-Good-GD-AuthToken: <GDAuthToken>
{
}
```

If the request is successful, BEMS returns the following response and the BlackBerry Work and third-party apps display the user's personal distribution lists.

```
HTTP/1.1 200 OK
{
 Groups:[
      {Name: "<personal distribution_list1>",
       Members:[
                  {Name: "<User1>", Email: "<user1@example.com>"},
                  {Name: "<User2>", Email: "<user2@example.com>"}
             ]
       },
       {Name: "<personal distribution_list2>",
       Members: [
                  {Name: "<User1>", Email: "<user1@example.com>"},
                  {Name: "<User2>", Email: "<user2@example.com>"},
                  {Name: "<User3>", Email: "<user3@example.com>"}
              ]
       },
       {Name: "<personal distribution_list3>",
        Members: [
                  {Name: "<User1>", Email: "<user1@example.com>"},
                  {Name: "<User2>", Email: "<user2@example.com>"},
                  {Name: "<User3>", Email: "<user3@example.com>"},
                  {Name: "<User4>", Email: "<user4@example.com>"}
                    ]
       }
       ]
}
```

Retrieve personal distribution lists after a specified time

You can retrieve all of a user's personal distribution lists that were created or edited after a time that you specify. In the following sample code, BEMS retrieves the personal distribution lists that were created and updated in the user's mailbox after the SinceTs of 1489762857000.

```
POST /api/contactgroup HTTP/1.1
https://:<BEMS FQDN>:8443/api/contactgroup
Content-Type: application/json
X-Good-GD-AuthToken: <GDAuthToken>
{
  "SinceTs": 1489762857000
}
```

If the request is successful, BEMS returns the following responses and the BlackBerry Work and third-party apps display the user's updated personal distribution lists.

- If the distribution list did not change after the specified SinceTs, BEMS returns the following response:

```
HTTP/1.1 200 OK
{}
```

- If the distribution list did change after the specified SinceTs, BEMS returns the following reponse:

  Note: In the response example, distribution list 2 adds a new, and distribution list 3 removes a contact.

```
HTTP/1.1 200 OK
{
 Groups:[
       {Name: "<personal distribution_list2>",
       Members: [
                  {Name: "<User1>", Email: "<user1@example.com>"},
                  {Name: "<User2>", Email: "<user2@example.com>"},
                  {Name: "<User3>", Email: "<user3@example.com>"},
                  {Name: "<User4>", Email: "<user4@example.com>"}
                        ]
 },
       {Name: "<personal distribution_list3>",
        Members: [
                  {Name: "<User1>", Email: "<user1@example.com>"},
                  {Name: "<User2>", Email: "<user2@example.com>"},
                  {Name: "<User3>", Email: "<user3@example.com>"}
                         ]
       }
       ]
}
```

Notifications to update personal distribution lists

Every 15 minutes, BEMS sends a notification to the BlackBerry Work and third-party apps that specifies any changes to the user's personal distribution lists in the user's contact folder after the specified time. The BlackBerry Work and third-party apps call the contactgroup API to retrieve data and update the personal distribution list in the BlackBerry Work and third-party apps.

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