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Momentum
THE RESCUE NETWORK

Momentum Integration API v.4.0: Specifications

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Data

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Summary

Revision Table 3
Reference documents 3
1. Introduction 4
2. Truth table 4
3. Sample Configuration 5
4. Instance 1. Area: 0, Group: 0, User_filter: 0 5
   4.1. Example 6
5. Instance 2. Area: 0, Group: 0, User_filter: 1 6
   5.1. Example 6
6. Instance 3. Area: 0, Group: 1, User_filter: 0 6
   6.1. Example 6
7. Instance 4: Area: 0, Group: 1, User_filter: 1 6
   7.1. Example 6
8. Instance 5: Area: 1, Group: 0, User_filter: 0 6
   8.1. Example 6
9. Instance 6: Area: 1, Group: 0, User_filter: 1 7
   9.1. Example 7
   9.2. Example 7
10. Instance 7: Area: 1, Group: 1, User_filter: 0 7
   10.1. Example 7
11. Instance 8: Area: 1, Group: 1, User_filter: 1 7
   11.1. Example 7
12. Annotations 7

Revision Table

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Reference documents

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1. Introduction

This document aims to describe the possible combinations related to the creation of a new emergency and the sending of the notifications that the implementation of the new API integration v.4.0 will allow.

The elements that affect the set of users alerted are:

- Area
- Group
- UserFilter

Area: a user can belong to one or more (even all) areas. The API will allow you to specify zero or one area.

Group: a user can belong to zero or more groups. The API will allow you to specify zero or more groups.

UserFilter: there are two UserFilter Types that can be used: Email, Phone number. With these types of UserFilters we referred to the corresponding Email and Phone number fields in Momentum user profile. The API will allow you to specify the Userfilter type and then the set of values that you want to use in order to filter data. For example, if you want to filter data using Phone number values, you have to use the "Phone number" UserFilter Type and then send a set of Phone numbers.

2. Truth table

The following truth table describes all the possible combinations that may occur through the call of the new API.
In the truth table, the "0" value means that the value is not indicated, while the "1" value means that a single value or a set of values is specified.

INSTANCE	AREA	GROUP	USER_FILTER	RESULT
1	0	0	0	Broadcast alarm
2	0	0	1	The system will alarm only users that have, in their Momentum use profile, the value of the specified filter type (e.g. Phone number) belonging to the set of values included in API set.
3	0	1	0	The system will alarm only users belonging to at least one of the groups indicated in the set of groups transferred via API.
4	0	1	1	The system will alarm users belonging to at least one of the groups indicated in the set of groups transferred via API. At the same time, the system will alarm users that have, in their Momentum user profile, the value of the specified filter type (e.g. Phone number) belonging to the set of values included in API set.

5	1	0	0	The system will alarm only the users that belong to the specified area and the users that belong to all areas.
6	1	0	1	The system will alarm only the users that belong to the specified area and the users that belong to all areas. Moreover, the system will alarm the users that have, in their Momentum use profile, the value of the specified filter type (e.g. Phone number) belonging to the set of values included in API set.
7	1	1	0	The system will alarm only the users that belong to the specified area and the users that belong to all the areas if and only if they belong to at least one of the groups indicated in the set of groups transferred via API.
8	1	1	1	The system will alarm only the users that belong to the specified area and the users that belong to all the areas if and only if they belong to at least one of the groups indicated in the set of groups transferred via API. Moreover, the system will alarm the users that have, in their Momentum use profile, the value of the specified filter type (e.g. Phone number) belonging to the set of values included in API values.

3. Sample Configuration

To understand all the possible configurations indicated in the Truth table and analyzed in detail in the next chapters, we describe the following sample configuration:

INSTANCE	USER	AREA	GROUP	USER_FILTER (e.g. PHONE_NUMBER)
1	USER_A			PHONE_NUMBER_A
2	USER_B	AREA_1		PHONE_NUMBER_B
3	USER_C		GROUP_X	
4	USER_D	AREA_2	GROUP_X	PHONE_NUMBER_D
5	USER_E	AREA_1, AREA_2	GROUP_X, GROUP_Y	

In the next chapters we describe in details the single instances, with a brief description and an example.

4. Instance 1. Area: 0, Group: 0, User_filter: 0

In instance 1 no parameter about area, group or user filter is specified in the API call.
All the users logged in Momentum App will be alarmed (broadcast intervention), regardless of any other Momentum configuration.

4.1. Example

API Call: broadcast
Notified users: USER_A, USER_B, USER_C, USER_D, USER_E.

5. Instance 2. Area: 0, Group: 0, User_filter: 1

In instance 2 the API call sends a set of values for the user filter specified (e.g. Phone number). You must specify one user filter type and a set of one or more user filter values (e.g. one or many Phone numbers).
They will be alarmed only users who have, in their Momentum user profile, for the field specified by User filter Type parameter (e.g. “Phone Number”), a value included in the list sent via API.

5.1. Example

API Call: PHONE_NUMBER_B, PHONE_NUMBER_D.
Notified users: USER_B, USER_D.

6. Instance 3. Area: 0, Group: 1, User_filter: 0

In instance 3 the API call sends a set of one or more groups to be alarmed.
They will be alarmed only users who belong to at least one of the groups included in the set.

6.1. Example

API Call: GROUP_X, GROUP_Y.
Notified users: USER_C, USER_D, USER_E.

7. Instance 4: Area: 0, Group: 1, User_filter: 1

In instance 4 the API call sends a set of one or more groups and a set of one or more values for the specified user filter type (e.g. “Phone number”).
They will be alarmed users who belong to at least one of the groups included in the set.
Moreover, they will be alarmed users who have, in their Momentum user profile, for the field specified by User filter Type parameter (e.g. “Phone Number”), a value included in the list sent via API.

7.1. Example

API Call: GROUP_Y, PHONE_NUMBER_D.
Notified users: USER_D, USER_E.

8. Instance 5: Area: 1, Group: 0, User_filter: 0

In instance 5 the API call indicates exclusively the intervention area, without any other parameter. The system will alarmed only the users that that belong to the specified area and the users that belongs to all the areas.

8.1. Example

API Call: AREA_2
Notified users: USER_A, USER_C, USER_D, USER_E.

9. Instance 6: Area: 1, Group: 0, User_filter: 1

In instance 6 the API call indicates the intervention area and a set of one or more values of the predefined User_Filter (e.g. “Phone Number”).
They will be alarmed users that belong to the specified area and users that belongs to all the areas. Moreover, they will be alarmed users who have, in their Momentum user profile, for the field specified by User filter Type parameter (e.g. “Phone Number”), a value included in the list sent via API.

9.1. Example

API Call: AREA_2, PHONE_NUMBER_A.
Notified users: USER_A, USER_C, USER_D, USER_E.

9.2. Example

API Call: AREA_2, PHONE_NUMBER_B.
Notified users: USER_A, USER_B, USER_C, USER_D, USER_E.

10. Instance 7: Area: 1, Group: 1, User_filter: 0

In instance 7 the API call includes the intervention area and a set of one or more groups.
They will be alarmed users that belong to the specified area and users that belongs to all the areas, if and only if these users belong to at least one of the groups included in the set.

10.1. Example

API Call: AREA_1, GROUP_X.
Notified users: USER_C, USER_E.

11. Instance 8: Area: 1, Group: 1, User_filter: 1

In instance 8 the API call includes the intervention area, a set of one or more groups and a set of one or more values for the specified user filter type (e.g. “Phone Number”).
They will be alarmed users that belong to the specified area and users that belongs to all the areas, if and only if these users belong to at least one of the groups included in the set.
Moreover, they will be alarmed users who have, in their Momentum user profile, for the field specified by User filter Type parameter (e.g. “Phone Number”), a value included in the list sent via API.

11.1. Example

API Call: AREA_2, GROUP_Y, PHONE_NUMBER_A
Notified users: USER_A, USER_E.

12. Annotations

Users who satisfy all the conditions for receiving an intervention will receive the following notifications:

- Push notifications on all their mobile cells (if they are logged on Momentum app).
- Notifications via user active dispatchers (SMS, Pager, VoiceMessage or Email Dispatchers). Depending on dispatcher and dispatcher configuration, users can receive alarms even on phone numbers other than the phone number specified in the user profile. The same applies to the mail configured in the user profile and the mails that can be configured in the Mail dispatcher.