

eAlarm emergency: Configuration of coordinates

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1. Coordinates in the alarm text

1.1. Standard function

eAlarm emergency can announce the location of the event with each alarm text. This feature is available in the application for free. The user can define the location and the transmission of the shortcut per alarm case or assign it to an alarm template.

The SMS is given a short link with the alarm text. The short link can be used to display the event location, for example on Google Maps.

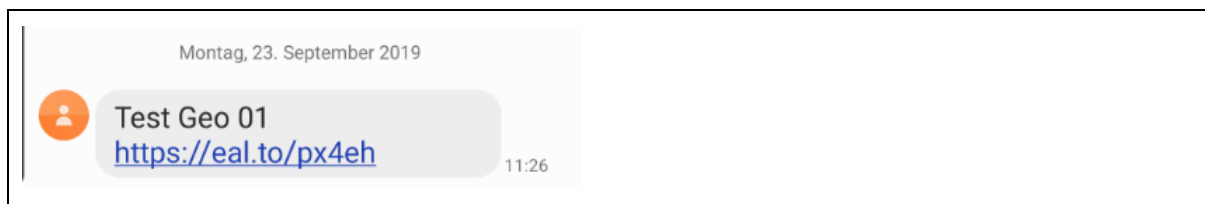


Figure 1: Display of the alarm text followed by the shortcut

1.2. Additional functions

1.2.1. Geographical coordinates

Navigation and positioning systems of the emergency services may rely on the geographical coordinates in the alarm message. With the free additional function "Add Text Coordinate", the coordinates are also given to the alarm message and the shortlink. The geographical coordinates (spherical coordinates) are transmitted in number format according to the WGS84 system.

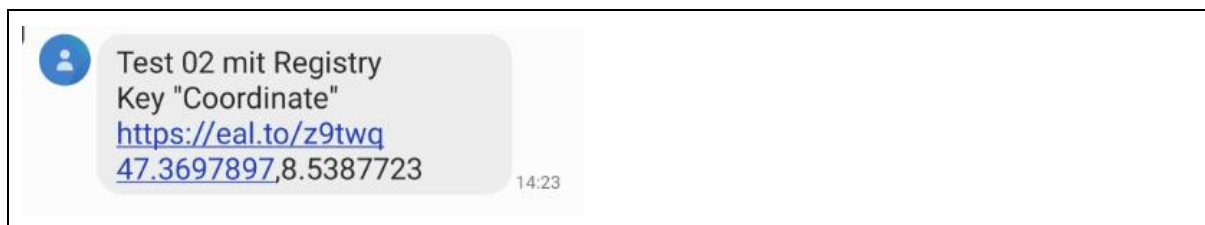


Figure 2: Display of the alarm with the coordinates in an SMS message

1.2.2. SMS GEO

If navigation and positioning systems cannot process SMS messages with alarm text and coordinates in the same message, the "Alert Media Coordinate" module (available for a fee) offers a remedy. This module splits the alarm text and location information into two individual SMS messages.

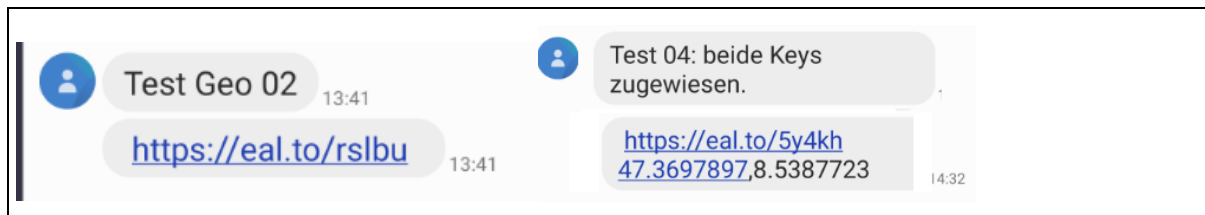


Figure 3: Display of the alarm and the coordinates separated into two SMS messages

An overview of how the functions described behave in individual cases can be found in Appendix 4.

2. Geographical coordinates: Settings and Application

As mentioned in chapter 1.2.1, the additional function must be configured once. For this purpose, the additional function "Add Text Coordinate" must be inserted in the "Registry" tab under "Admin".

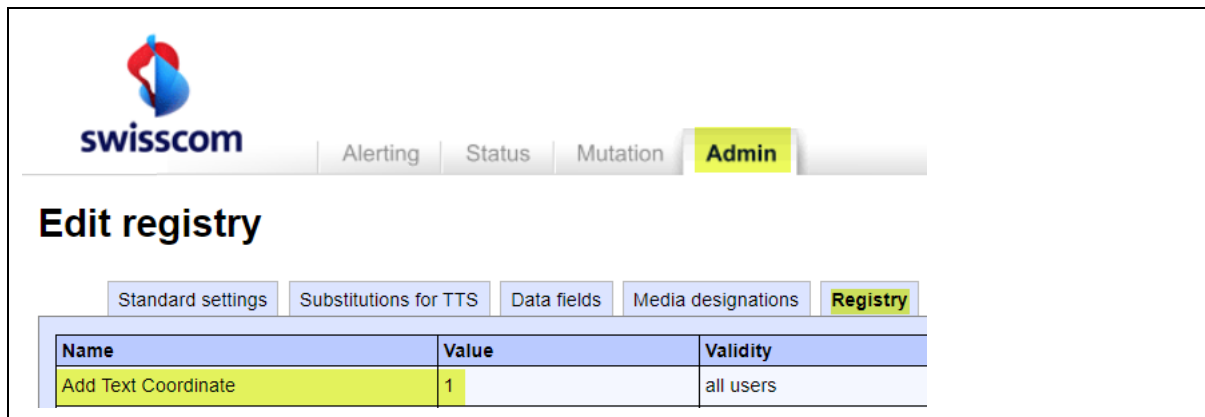


Figure 4: Activate function in the registry

2.1. give the alert

Subsequently, the following settings must be taken into account when triggering the alarm.

Create alert

Alert name: Martin.Feuz-20200424-153815 Originator: Admin Time: 24.04.2020 15:38:32
1 Subscriber, 0 Units
Text: Testalarm für Martin (deutsch)
Coordinates

Transmit coordinates? Yes ☒ No ☐

Please enter the desired coordinates or address. The WGS84 format will be transmitted to the alarm media.

Enter adress

Example: Bern, Hauptstrasse 10
Address found :
Paradeplatz, 8001
Zürich, Schweiz

Swiss grid
(Format: dddddd.dd - max. 2 decimal places)

Y-Value (N/S)
Example: 605123.34

X-Value (E/W)
Example: 235456.43

Milgrid
(Format: ddAAAdddddddddd)

WGS84
(Format: dd.dddd - min. 4 decimal places)

Y-Value (N/S)
Example: 47.1612

X-Value (E/W)
Example: -8.26456

Figure 5: Trigger settings on alarm

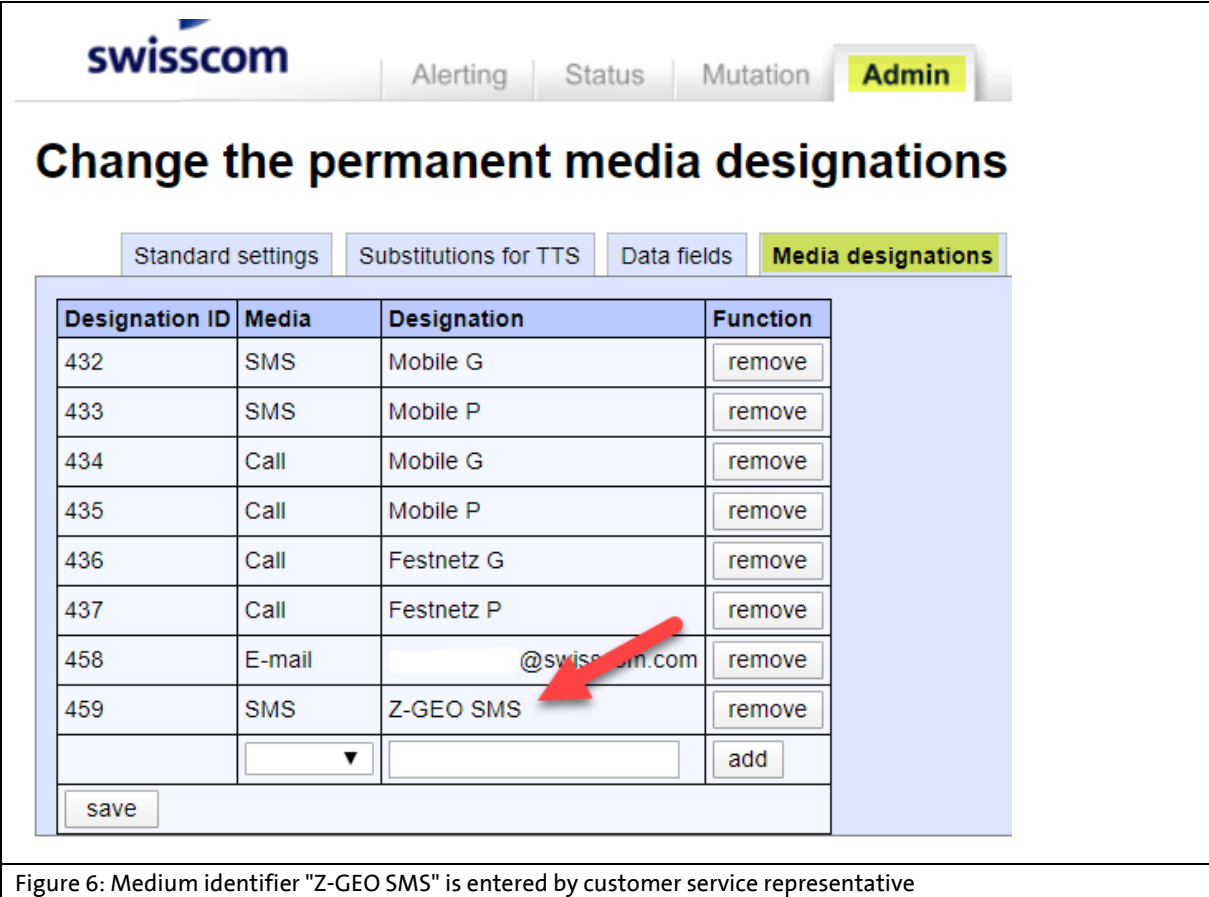
3. SMS GEO: Settings and application

As described in chapter 1.2.2, the additional function must be configured once. For this purpose, a new means identifier must be set up and the "Alert Media Coordinate" function must be set in the Back Office.

👉 This BackOffice key is subject to a fee and is only set by the Swisscom customer advisor.

As soon as the BackOffice Key is activated and the means identifier, in the example "Z-GEO SMS", is defined, the subscribers can be set up.

👉 For the transmission of the coordinates to the subscriber, the entry of the mean identifier "Z-GEO SMS" is mandatory. If the entry is missing in the subscriber configuration, the receiver does not receive any coordinates for the event.



The screenshot shows the Swisscom Admin interface with the 'Admin' tab selected. The main heading is 'Change the permanent media designations'. Below this, there are four tabs: 'Standard settings', 'Substitutions for TTS', 'Data fields', and 'Media designations' (which is highlighted). The 'Media designations' tab contains a table with the following data:

Designation ID	Media	Designation	Function
432	SMS	Mobile G	remove
433	SMS	Mobile P	remove
434	Call	Mobile G	remove
435	Call	Mobile P	remove
436	Call	Festnetz G	remove
437	Call	Festnetz P	remove
458	E-mail	@swisscom.com	remove
459	SMS	Z-GEO SMS	remove
			add

Below the table is a 'save' button. A red arrow points to the 'Z-GEO SMS' entry in the 'Designation' column.

Figure 6: Medium identifier "Z-GEO SMS" is entered by customer service representative

The participants can be set up with the allocation of the newly created resource identifier.

1)



Alerting | Status | **Mutation** | Admin

Change

Change

Organisational chart / Tree view

List of subscribers

Texts

2)



Alerting | Status | **Mutation** | Admin

0 act

List of subscribers

filter by units

all into alert list

New subscriber

Last name, first name

Mobile G (Call)

Festnetz P (Call)

Mobile G (SMS)

(deleted)

3)



Alerting | Status | **Mutation** | Admin

Subscriber zone

General

Options

Alert medium

Week planer

Absence

Groups

data set:

Time profile:

Standardprofil

delete profile

create new profile

Profil name:

Standardprofil

new alert medium

Alert medium:

SMS

Number:

Format: +41791234567

Media designations:

Mobile G

Mobile G

Mobile P

Z-GEO SMS

conference medium:

eAlarmApp:

Alerting sequence:

+41

Z-GEO SMS

Alerting in parallel:

Figure 7: Opening subscribers and assigning a new means "Z-GEO SMS"

3.1. give the alert

The following settings must be taken into account when triggering the alarm.

1)

Create alert

Alert name: Martin.Feuz-20200424-153815 Originator: Admin Time: 24.04.2020 15:38:32
1 Subscriber, 0 Units
Text: Testalarm für Martin (deutsch)
Coordinates

Transmit coordinates? Yes No

Please enter the desired coordinates or address. The WGS84 format will be transmitted to the alarm media.

Enter address

zürich, paradeplatz
Example: Bern, Hauptstrasse 10
Address found : Paradeplatz, 8001 Zürich, Schweiz

Swiss grid
(Format: dddddd.dd - max. 2 decimal places)

Y-Value (N/S)
Example: 605123.34

X-Value (E/W)
Example: 235456.43

Milgrid
(Format: ddAAAdddddddddd)

WGS84
(Format: dd.ddddd - min. 4 decimal places)

Y-Value (N/S)
Example: 47.3697897

X-Value (E/W)
Example: 8.5387723

2)

Alert options

Alert the following media

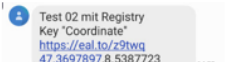
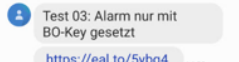
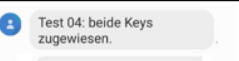
☒ SMS: Mobile G
☒ SMS: Mobile P
☒ Call: Mobile G
☒ Call: Mobile P
☒ Call: Festnetz G
☒ Call: Festnetz P
☒ E-mail: @swisscom.com
☒ SMS: Z-GEO SMS

All / Nothing / Reverse

Activate newly defined means.

Figure 8: Trigger settings on alarm

4. Annex

	Reg Key	BO Key	Results by SMS			
Test N°	Add Text Coordinate	Alert Media Coordinate (GEO-SMS)	Alarm text	Google Short Link	Coordinates in Plain text	Smartphone display
1	not active	not active	ok	ok	-	
2	active	not active	ok	ok	ok	
3	not active	active	ok	ok	-	
4	active	active	ok	ok	ok	

	Reg Key	BO Key	Results by eMail			
Test N°	Add Text Coordinate	Alert Media Coordinate (GEO-SMS)	Alarm text	Google Short Link	Coordinates in Plain text	Mail Message
1	not active	not active	ok	ok	-	Test 01 ohne spezifische Konfig. der Koordinaten Alarmort: https://eal.to/8cjax
2	active	not active	ok	ok	ok	Test 02 mit Registry Key "Coordinate" Alarmort: https://eal.to/z9twg 47.3697897,8.5387723
3	not active	active	ok	ok	-	Test 03: Alarm nur mit BO-Key gesetzt Alarmort: https://eal.to/5ybq4
4	active	active	ok	ok	ok	Test 04: beide Keys zugewiesen. Alarmort: https://eal.to/5y4kh 47.3697897,8.5387723