



EDS Text Application

The EDS Text is the most recent addition to the Mindset Detector Family. The Text system simplifies fault handling and enriches user experience using natural language processing abilities. With our text system, you will be able to receive information regarding your water system from consumers, contractors, and utility workers, get a visual of the messages on top of a google map, with relation to location address or station, and enter notes of your own into the software.



The EDS Text system, as the EDS itself, is constructed of three components: server, client and mobile application. All of the above work in synergy to provide the user a comfortable display of the system messages. The messages are received from the Client or Mobile interface (or an external system to the customer's request) and stored in the DB server. They are later processed and analyzed into location and severity categories.



Text Server

The EDS Text Server has several responsibilities. It is responsible for translating the message location into map coordinates and sorting the message category into severity levels. After that, the EDS Text server uses the description of the message and compares it to words in the Server Dictionary. The Server Dictionary is constructed of past messages saved in the system, classified by problem type and severity. The Server uses the data gathered above to determine the action needed, whether this problem requires intervention or notification of the staff.

The Server identifies if a group of messages is linked to the same problem and combines them into one message. It also ties the messages into pending problems or events in the network stations and updates the EDS accordingly.





Text Client

The EDS Text client interface is integrated into the EDS Desktop Client interface. The messages can be displayed on top of the Clients map, and filters by severity and timestamp. The user can enter a new message, watch previous messages, close messages or produce periodic reports of the messages in the system. The user can also update the Server's dictionary with proper privileges.

The screenshot shows the 'Messages For Site' window with the following filters:

- From: 2021/10/28 14:25:30
- To: 2022/01/04 14:25:30
- Models: Azur_Ben_Gurion, Dagan_Begin, Dagan_Hagolan
- Address Filter: (empty)
- Filtering Key Words: (empty)

Date	Source	Address	Message	Severity
2021-11-08 4:29:00 PM	Consumer	אהרונוביץ בית: 79; ישוב: חולון	פיצוץ מים לפני מד ראשי במדרכה	
2021-11-09 5:09:00 PM	Consumer	אהרונוביץ בית: 79; ישוב: חולון	פיצוץ מים לפני מד ראשי במדרכה	
2021-11-03 8:18:00 PM	Consumer	אהרונוביץ בית: 79; ישוב: חולון	בית דו קומחי - סוענת שבעדו במדרכה וגרמו לחץ מים חזק מאוד. מוח כחודש ימים...	
2021-12-15 3:21:00 PM	Consumer	אהרונוביץ בית: 79; ישוב: חולון	החושב טוען שיש פיצוץ בצינור שלפני המ... החושב טוען שיש פיצוץ בצינור שלפני המ... אין מים בכל הבניין (מבטחט שיצרו אחת קשר... טוחח 2 לא גם לשכנים אין מים... 2.06.16/12/2021 פיצוץ שית' וינשלוח פניה: 206... ספטרף מהשוער הראשי שצברו בכחור... פיצוץ מים לפני מד ראש... ליד הכניסה לקופת חוליים כללית מכסה בית... בחיבור של השעור נגילת מין	

Picture 1: Messages List

The screenshot shows a map of a residential area in Holon, Israel. Several red 'T' markers are placed on the map, indicating the locations of messages. A pop-up window for an event is visible, showing details for a message at 'איו מים: 26; ישוב: חולון'.

Picture 2: Map Display



Text Mobile App

The mobile application is very similar to the Desktop client. It provides the user the options to see the messages on top of a map, to add new messages, and observe, Edit and close existing messages. The user can also edit the Server dictionary.

89% 14:37

L4 Add Message

Reporting Date:
2022/01/04 14:37:50

Start Date:
01/04/2022

Start Time:
14:37

Data Source:

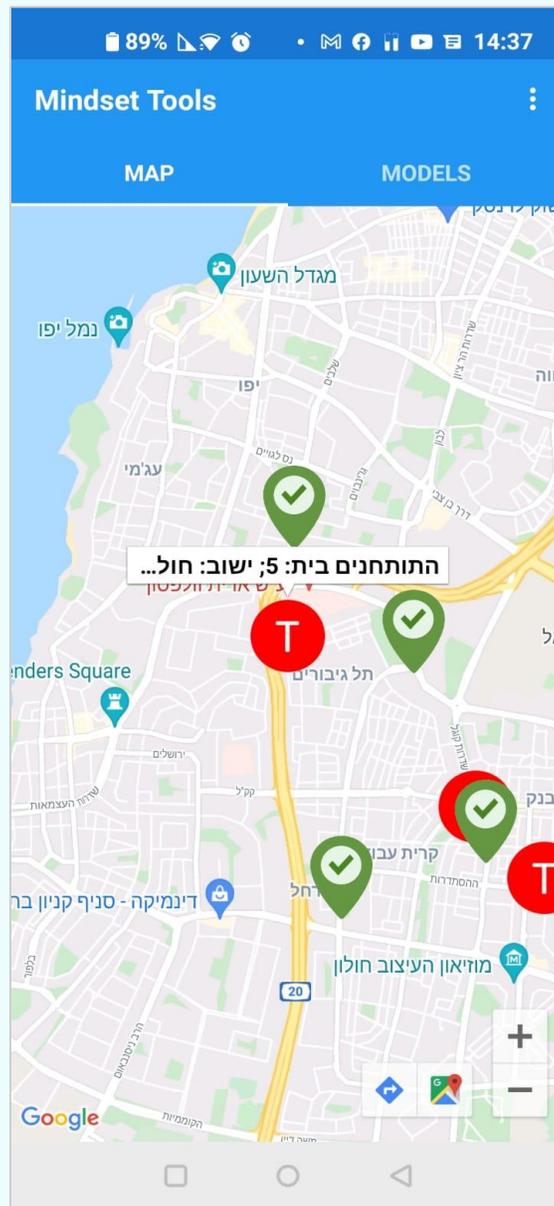
Related To:

Address:

Description:

SEND MESSAGE

Picture 4: Add Message



Picture 5: Phone Map

89% 14:38

L4

Timestamp: 2022/01/04 07:15:00

batt		ulmlevel	
0.000(*)		0.240(*)	
S.Low	S.High	S.Low	S.High
0	0	0	0
U.Low	U.High	U.Low	U.High
0	5	0	10

89% 14:37

L4 Messages

Time period: 2021/12/01 14:37 -> 2022/01/04 14:37

SETTINGS

Message Id: 70444

Reporting: 2021-12-26 10:46:00
Start: 2021-12-26 10:46:00
End:
Data Source: 01
Address: התוחננים בית: 5; ישוב: חולון;
Event Description: ביוס מצפף את הכביש;
Keywords:
Longitude: 34.76116
Latitude: 32.03094
Related Stations:
Related To: 2
Processed: False

Message Id: 70443

Reporting: 2021-12-26 10:45:00
Start: 2021-12-26 10:45:00
End:
Data Source: 01
Address: קאפה יחיא הרב בית: 31; ישוב: חולון;
Event Description: מול בנין 31 יש בולען בכביש;
מסוכן מאוד יש לשלוח את תשתיות לסדר המפגע
24/12/2021 14:56

Picture 6: Messages List

