Esders Connect App API

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Introduction

The "Esders Connect App API" is an interface to the "Esders Connect App", which allows to read out the newest measurement and to set MDE data.

Requirements

To use this "API", following requirements have to be satisfied:

- The newest version of the "Esders Connect App" must be installed

- An android or iOS device

Usage

Android

On android the app can be launched with different intents. The app will always return a result unless the app is closed with the back button.

Result

The app will always either return RESULT_OK or RESULT_CANCELED, as activity result. An intent is also returned, unless the app is closed using the back button. The result intent, if present, will contain one integer field with the name "resultCode".

The integer value can be interpreted as follows:

Value	Name	Description
0	SUCCESS	Everything is ok and the measurement is sent.
1	READ_MEAS_LIST_FAILED	An error occurred while reading out the measurement list.
2	CONNECTION_ERROR	An error occurred during readout; this error can only occur if the connection is lost.
3	MISSING_DESTINATION	This error occurs, if there is no destination set (e-mail address or flag "uploadWithoutPdfSending")
4	MISSING_DATA	This error occurs, if the intent has no data (extra-map).
5	APPEND_MDE_FAILED	This error occurs, if appending mde data to the measurement data failed.
99	UNKNOWN	Unknown behavior.

Intents

- ### de.esders.esdersconnect.SEND

  This intent will be read out the newest measurement and allows you to set the mde data. The following parameters can be set:

Name	Type	Description
mde	Bundle	The mde data is given as a key value map, where the key is the name of the mde field.
emails	String[]	An array of e-mail addresses. Up to 3 addresses are currently supported.
uploadWithoutPdfSending	boolean	Set true if you want uploading measurements

			without sending a pdf report to e-mail addresses.
useGPS		boolean	If this field is true, the current GPS position is stored within the measurement.

iOS

On iOS there is a custom URL schema (esdersconnect:). This URL can be called with different resources.

Result

In order to receive any result from the Esders Connect App you need to provide an URL schema, which you set as query parameter by calling any of the app resources. The app will than call this URL with result as query parameter. The result value is an integer and can be interpreted as following:

Value	Name	Description
0	SUCCESS	Everything is ok and the measurement is sent
1	READ_MEAS_LIST_FAILED	An error occurred while reading out the measurement list.
2	CONNECTION_ERROR	An error occurred during readout; this error can only occur if the connection is lost.
3	MISSING_DESTINATION	This error occurs, if there is no destination set (e-mail address or flag "uploadWithoutPdfSending")
4	MISSING_DATA	The url schema does not include "SEND".
5	APPEND_MDE_FAILED	This error occurs, if appending mde data to the measurement data failed.
99	UNKNOWN	Unknown behavior.

Resources

- esdersconnect:SEND

This resource reads out the newest measurement and allows you to set the mde data. The following parameters can be set:

Name	Type	Description
mde	string	The mde data is given as a key value map, where the key is the name of the mde field. The map is encoded as following: KEY=VALUE;KEY=VALUE;…
emails	string	An array of e-mail addresses. Up to 3 addresses are currently supported. The array is encoded as following: EMAIL1;EMAIL2;…
uploadWithout-PdfSending	string	Set "1" if you want uploading measurements without sending a pdf report to e-mail addresses.
useGPS	string	If this field is "1", the current GPS position is stored within the measurement.
resultURL	string	An URL schema which will receive the result of the app.

Revision History

Version	Date	Editor	Changes
1.0	08.10.2021	CT	Initial Version
1.1	29.11.2024	DS	Parameter "sendApi" deleted. Parameter "uploadWithoutPdfSending" added. Result codes updated.