

# EMERGENCY EVACUATION KIT

## Multimodal Identification Technologies LLC

### Introduction

This is an immediately deployable, portable, self-contained package, which facilitates the identification, registration and management of people moving out of a disaster area, or out of an area or country requiring immediate evacuation. It can also be used to identify, register and monitor people moving into a disaster area and then manage their movements in and out.

The package ensures that all components are always fully charged and ready for immediate use. The package ensures that all necessary communications are maintained, regardless of the condition of the local infrastructure.

The identification part of the system provides a multimodal biometric and biographical capability, able to read any or all of fingerprints, passports, driver's licenses, ID cards and most widely used forms of identification.

The system can be local, regional, or connected to central national databases depending on the anticipated deployment and the options chosen at the time of purchase.

### USE CASE 1

#### Country or Region Evacuation

**For the purpose of this Use Case it is assumed that, in the country where citizens are to be evacuated, there are initial registration points, transportation points, and reception points.**

1. At the registration point, each person will present a passport or some other form of ID. This is scanned and a preliminary verification of authenticity is made. A fingerprint is taken. ID information and fingerprint are used to create a record.
2. At this time, self-identified families will also have a family record created, containing each family member's record.
3. At the transportation point, each person's fingerprint will be taken and the system will confirm or deny the registration. This will ensure that only registered people are transported.
4. At the reception point, each disembarking person's fingerprint will be taken and the system will confirm, or deny, that the person was registered and checked onto the transportation.
5. A full record of all information and movements will be maintained for individuals and families.

### USE CASE 2

#### Refugees or other incoming persons initial registration

**For the purposes of this use case it is assumed that the persons to be registered are in places where mobile and immediate registration is required. Examples may be rescuing people off boats at sea, registering people as they land on beaches, registering people as the cross remote places on a border or registering people in refugee camps. It is assumed that many of these people will have little or no documentation.**

1. At the registration point each person's fingerprint will be taken.
2. Any ID documentation will be scanned
3. If the ID documentation cannot be scanned it will be photographed using the smartphone camera.
4. If the ID documentation cannot be scanned the person's name will be manually entered.
5. A record will be established containing all the information collected above
6. Family members will have their records combined, but still able to be accessed individually.
7. Information collected on site will be either immediately transmitted to a central location, or held on site for transmission at the end of the collection process.

## USE CASE 3

### Disaster area ingress and exit

For the purpose of this use case, it is assumed that there are two requirements:

#### **(a) To identify and manage residents of the disaster area who are leaving**

For requirement (a) the operation would be similar to that of Use Case 1.

1. At the registration point, each person will present a passport, driver's license or some other form of ID. This is scanned and a preliminary verification of authenticity is made. A fingerprint is taken. ID information and fingerprint are used to create a record.
2. At this time, self-identified families will also have a family record created, containing each family member's record.
3. At the transportation point, each person's fingerprint will be taken and the system will confirm or deny the registration. This will ensure that only registered people are transported.
4. At the reception point, each disembarking person's fingerprint will be taken and the system will confirm, or deny, that the person was registered and checked onto the transportation.
5. A full record of all information and movements will be maintained for individuals and families.

**The kit will be set up so that it can perform either or both of the above functions.**

#### **(b) To register and manage emergency and other personnel who are entering the disaster and who will subsequently be entering an leaving several times.**

For requirement (b) it is assumed that there are places outside of the disaster area where personnel are registered and cleared for entry, and that there are defined points of entry into the disaster area.

It is also assumed that many, if not all, of the first emergency responders have been pre-registered and entered into the system, so as to speed up the initial response.

It is also assumed that all of the first responder vehicles have been identified and had an RFID tag attached.

1. At the registration point, any personnel not pre-approved will provide ID and a fingerprint.
2. At the entry points all personnel will have a fingerprint taken to confirm access is granted and the time and place recorded.
3. At the entry point all vehicle tags will be read and the time and place recorded.
4. On departure from the disaster area, fingerprints will be taken and vehicle tags read with time and place recorded.
5. A full record of every person's entry and exit, and the entry and exit of all emergency vehicles will be maintained.

## Kit Contents

Each kit comprises a waterproof, hard case, foam lined, containing the following:

- 8 x Samsung Galaxy S7 smartphones or equivalent
- 8 x Grabba Z3-5472nc-WSQ+ combination area imaging barcode scanner, MRZ (passport) reader, RFID reader (for passport chips), magnetic stripe reader, contact smartcard reader, fingerprint reader and extended battery. These will be attached to the Samsung smartphones.
- Charging system (110V and 240V) to ensure the smartphones and Grabba units are always fully charged. The lead from this charger to a wall power outlet will be the only item that comes outside of the case.
- Battery in the case that can be used during deployment to maintain charge in the Samsung/Grabba units, should there be no electric power at the site.
- Application software fully loaded onto each smartphone.

## Kit Options

- a) Software and middleware to connect the system to local, regional, state or federal databases
  - price dependent on requirements.
- b) Satellite Phone with local or satellite based hot spot
  - price on application
- c) Laptop computer with local hot spot
  - price on application

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