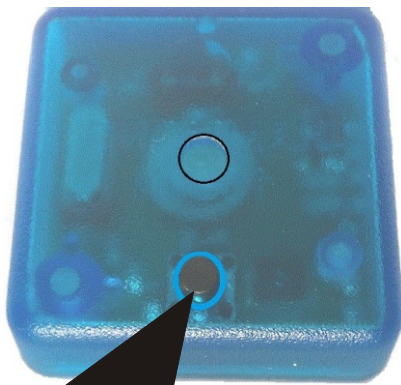
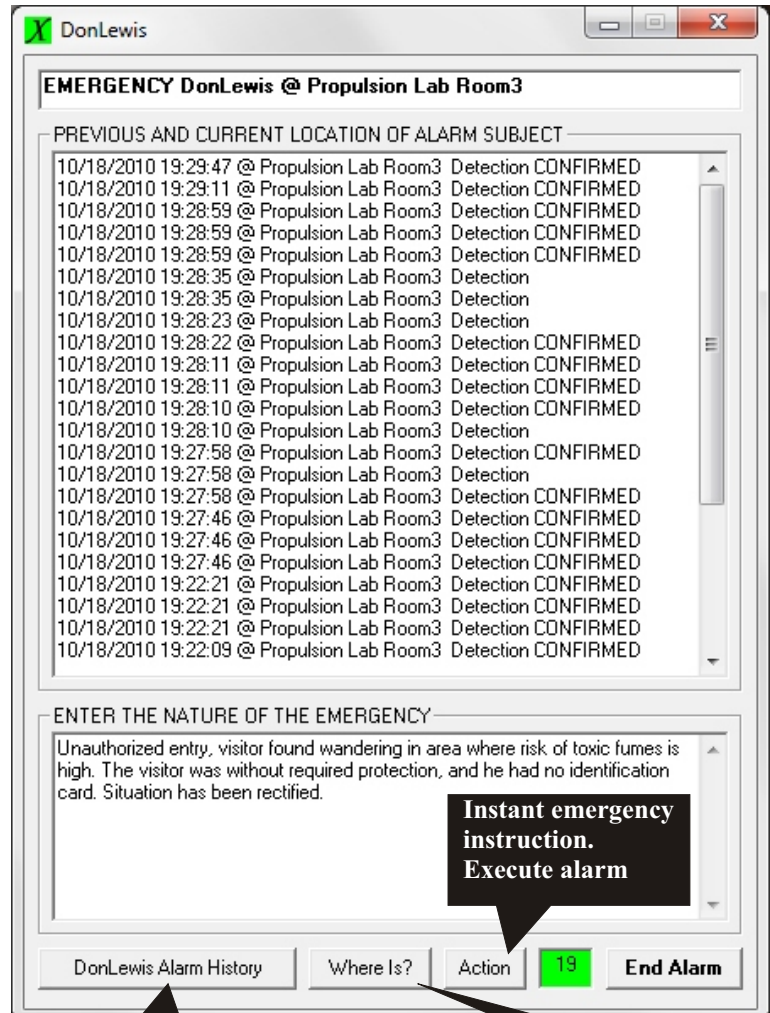


Program shown above runs on most windows operating systems. It runs in the background, polling HX19 locator receivers throughout the premises. Receivers store tag location data in internal memory, until retrieved by the windows computer. Tag locations received by the polling computer is time and date stamped and stored on its hard drive. This data is uploaded to the internet as it comes if www is checked.



Tags are available with a panic button. When pressed momentarily, the window on the right pops up on the monitoring computer. A panic report file is created and uploaded to the internet until the emergency is terminated.



Get Don Lewis's Alarm History or employee details.

Open a list of tagged items. Locate needed items instantly

The Internet

Given that Don Lewis has been associated with a tag and works for BMW, then type into your browser or your smart phone

"www.bmw.com/DonLewis.txt"

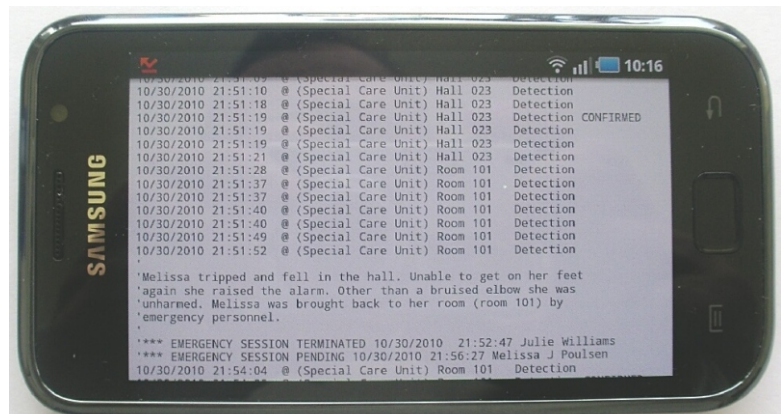
and you will know where Don Lewis was less than 30 seconds ago.

Keep track of your project members, no time wasted looking for them on the premises.

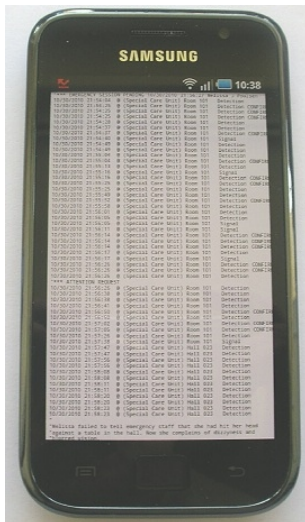
In case of an alarm type in

"www.bmw.com/panicDonLewis.txt"

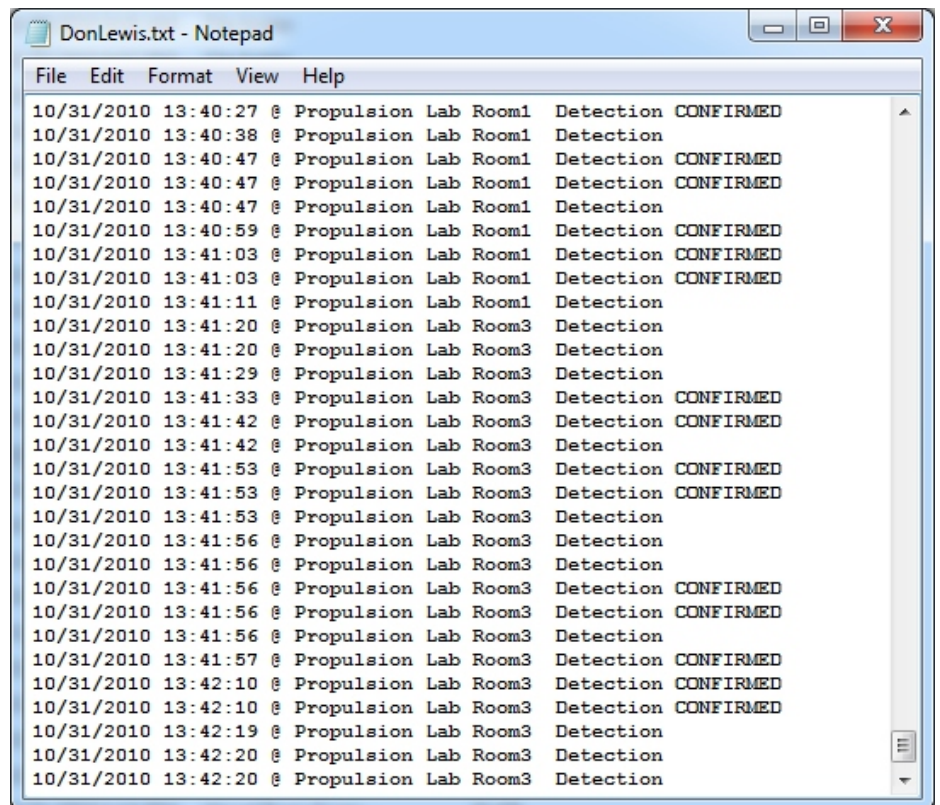
get the alarm report and supervise the



Whereabouts of key personnel and priced items at your fingertips



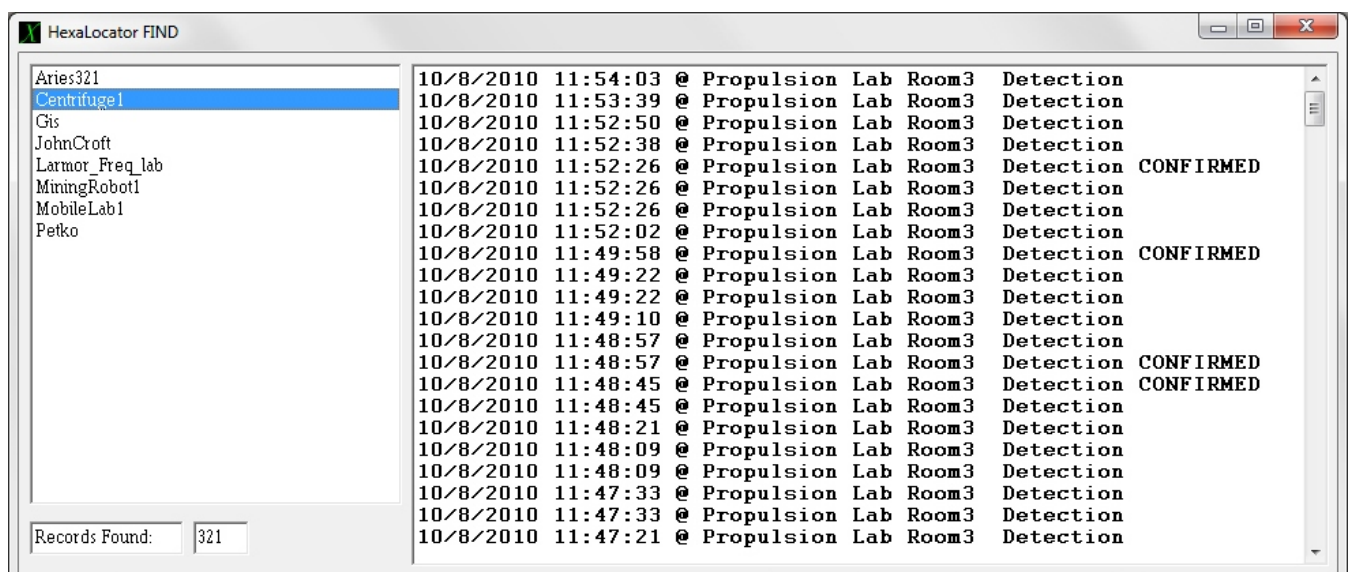
Scroll through employees location file using your phone, laptop or desktop browser. Since location data is globally appended on the internet, it doesn't matter if the tag bearer is detected in a down town office or

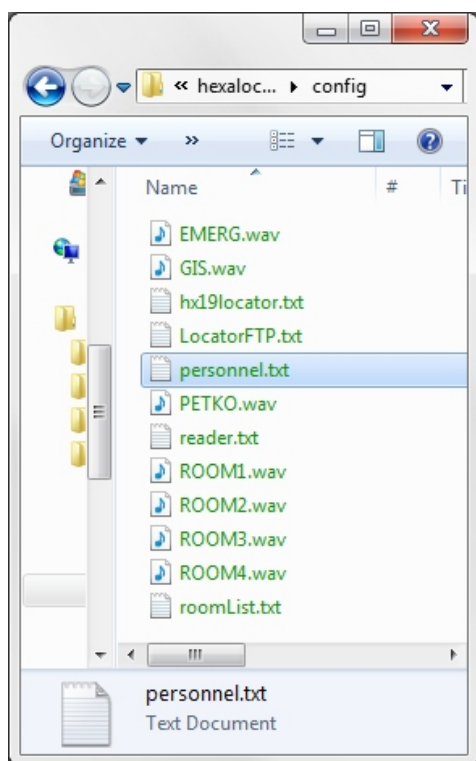


All computers running the locator poll program and monitoring the tag-receivers, add new information to old existing information. At the end of the day or midnight, location files are date tagged and copied to history directory. Consequently the regular work directories are cleared for a new day.

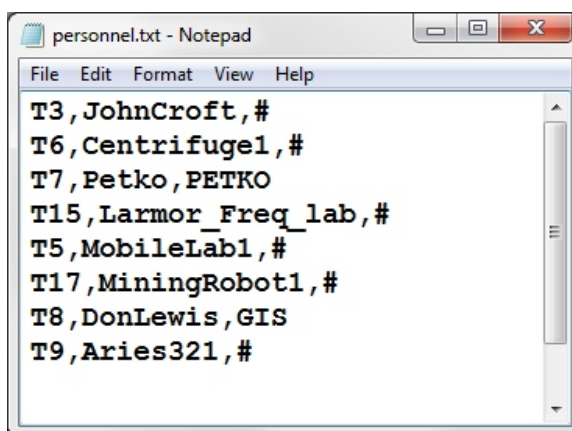
The "Where Is" utility

The "where is" program allows the user to scroll through a list of tagged items shown in the leftmost window. Double click on the item and the "where is" program will bring up the latest location and whereabouts for the previous 10 minutes. "Where Is" program can be found in the hexalocator directory. During an emergency alarm the Where Is program can be activated by the flick of a button and may be used as an aid for fast location of key personnel and/or equipment





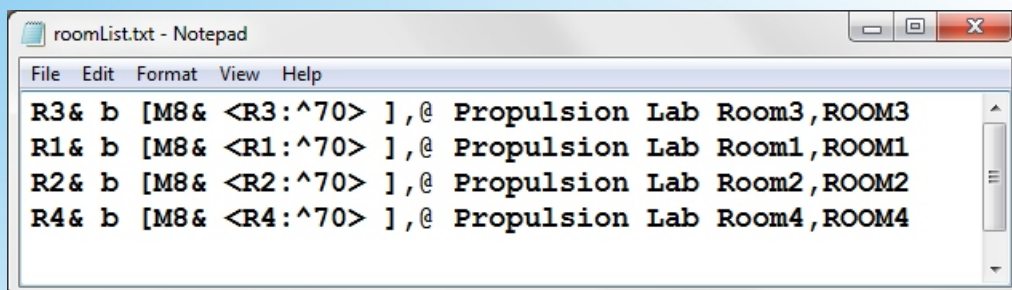
The hx19 locator system uses files in its config subdirectory for operations. The primary files are personnel.txt and roomlist.txt. Other files may also be of interest, but are regarded here as secondary.



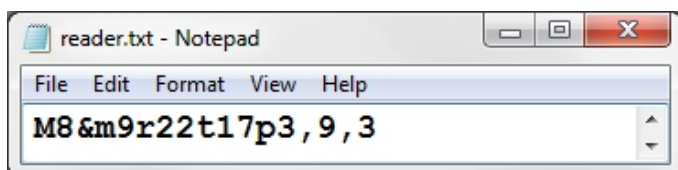
Every tag has an ID number label ranging from T1 to T1024. This ID must be associated with the appropriate tag carrier. The personnel file allows the user to associate tag IDs with items as shown above. Tags can also be associated with audio files, such as WAV files.

When the panic button on the associated tag is pressed, associated audio file is played on audio enabled computers. E.g T7,Petko,PETKO will append the time and location of T7 into a file called Petko.txt, and play PETKO.WAV when petko presses the panic button. Associations are separated by comma, # following a comma

The confine location should also be associated with a receiver. Receivers store incoming RFID/USID in a round buffer. Polling computers can fetch this information through the

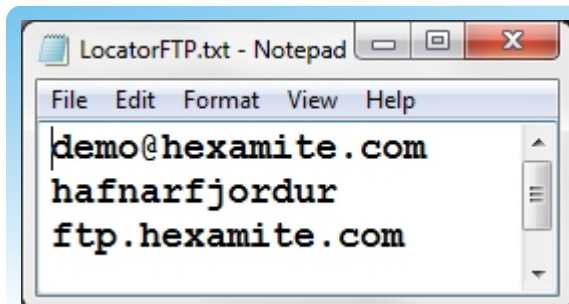


HX19RX buffers are cleared once the information has been fetched. The above roomlist.txt associates receiver R3 with propulsion Lab Room3, and audio file ROOM3. ROOM3.WAV is played by audio enabled computer when a panic button is pressed in the associated room. When a panic button is pressed, audio goes into a queue and is played on first come first serve bases. Hence the audio associated with a tag, is queued with audio associated with the room. Note: if there are multiple receivers per room, same association label can be applied to all of them.



The reader.txt is used to set the behavior of the HX19MS, its USB port number and the polling interval (in seconds) between receiver queries. Configuration parameters are separated by a comma.

Here HX19MS-8 is configured, comport is set at 9 and receivers are polled at 3 second intervals (M8&m9r22t17p3,9,3). See the Hx19 manual for more information.



The LocatorFTP.txt can be found in subdirectory config. It contains the necessary information for uploading location files to the internet. First line contains the USERNAME, the second line contains the PASSWORD and the third line

HexaLocator Operation

The HexaLocator uses three modes of detection SIGNAL, DETECTION AND CONFIRMED. "Signal" is the least reliable mode of detection and has highest probability of error. However if "signal" is associated with a person or object in multiple and sequential detections, mostly pointing to a specific location. Then the likelihood of the person/object being at that specific location is high, and extremely high if the tag is not detected anywhere else simultaneously. "Detection" indicates a higher probability of location truth, roughly 30 to 1. If there is detection in the same locality twice in a row, the probability increases to 30 x 30 or 900 to 1. Similarly "Detection" three times in a row is, 30 x 30 x 30 or 27000 to one. "Confirmation" is far highest of the three probability levels, roughly 400 to 1. A confirmation twice in a row is 400 x 400 or 160000. For certainty about the current location, history of the past minute or two may be of some importance.

One receiver per 50 sqm will show mostly detection with occasional confirmations, adding more receivers per locality will further enhance the absolute location truth. One receiver per 50 sqm forms a good system, but two

HexaLocator Evaluation Kit

6 x HX19R Location Receivers
4 x HX19T USID/Rfid tag (transmitter)
1 x HX19MS Monitor Synchronizer
1 x Demo Software + VB source code
1 x Full manual including point to point relay protocol appendices and HX19 block schematics

Price 1223 euros

HX19 component pricing	1-10	10-99	100-
HX19T USID/Rfid tag (transmitter)	83	67	48
HX19R Location Receiver	113	89	65
HX19MS Monitor Synchronizer	213		