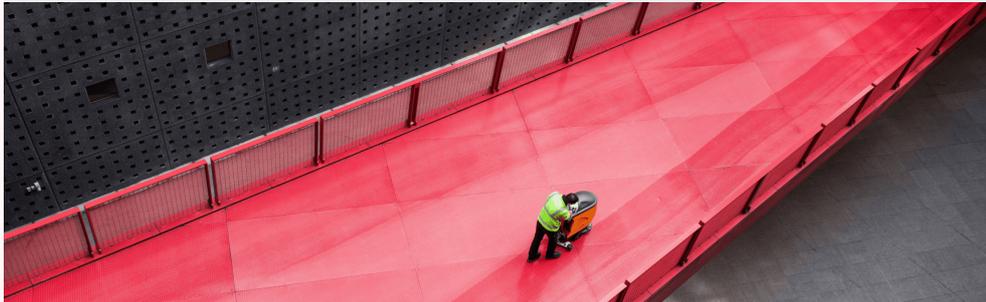


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Felsenmeer newsletter - week 44 / 2017

Product announcement



## SHALOSH ECO



We are pleased to announce our SHALOSH ECO - a new milestone of our LONE WORKER PROTECTION SOLUTION. We integrated many new and exciting features into our proven D.A.N.-SHALOSH. There are so many, we have to give you an overview first:



### Summary of new features

#### 1. Alarm Situations

- **Geofence Alarm**
- **Tilt Alarm**

#### 2. Alarm Distribution

- **Web Server**
- **Connection Check**
- **Mailbox Detection**
- **New Language**

#### 3. Place of Accident

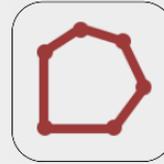
- **Floor Precise Localization**
- **ECO Mode**
- **Online Alarm Updates**

#### 4. Configuration and Maintenance

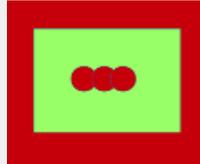
- **Configuration with SERVICE-STICK**
- **SIM Card PIN**
- **Firmware Update**

## Alarm Situations

### Geofence Alarm



Imagine a situation as shown in the picture: the SHALOSH ECO should remain inside factory (green area) but within the factory there is an area that is too dangerous for a lone worker. Use the SHALOSH ECO: define one GPS area, and tell the device to raise an alarm when this area is left. This will alert the lone worker to leave the device in the factory. In addition, define three Beacons that will trigger an alarm when the SHALOSH ECO receives any of them, alerting the lone worker that he is entering a very dangerous zone.



The SHALOSH ECO supports up to four square GPS regions and up to five Beacon regions simultaneously for geofencing. You can mix beacon and GPS areas and configure when an alarm is raised: inside or outside a region. An alarm is triggered when the device is inside at least one forbidden region or when it is outside of all allowed regions. Thinking in region "sets" requires some practice and we strongly recommend drawings to get the region definitions and their unions straight.

### Tilt Alarm



Most tasks are done when standing, but once the lone worker lies flat he probably needs help. To detect this situation, a lone worker has to carry the device in an upright position. But this is sometimes not feasible, e.g. when driving a forklift or any other sit-down job.



With a special configuration, the SHALOSH ECO can now lie on a long narrow side without raising an alarm. It will raise an alarm when it lies flat on its keys, its rear loudspeaker, when upright or head down.

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## Alarm Distribution

### Web Server



The SHALOSH ECO can now send an alarm also via HTTP. Newer billing plans have an included data volume but little to no SMS volume. Using a web server to receive the alarms can reduce costs and reduce alarm delay. The alarm telegram has the same format as the data SMS or you can configure one of the defined plain text languages.

### Connection Check



In installations that comply with DGUV Regel 112-139 (formerly known as BGR 139) the SHALOSH ECO checks whether the connection to the Control Center is still working. If this connection check does not arrive, the Control Center will raise an alarm. But some areas may not be covered by GSM or UMTS - resulting in false alarms.

The lone worker can now issue a connection check manually, this will restart the timer at the Control Center and prevent such alarms. This allows short work spans in areas that are not covered by GSM or UMTS. If the lone worker has an accident in such an area, the Control Center will raise an alarm, which is triggered by the next automatic connection check.

## Mailbox Detection



In a typical decentralized setting, several persons may react to an alarm. But what happens when the alarm voice call is re-directed by the network operator to the voice mail box? The SHALOSH ECO can detect this, hang up the call and dial the next voice call number. We recommend to change the mailbox announcement at the callees: during the announcement play a DTMF tone and configure the SHALOSH ECO to detect this tone as mailbox indicator. This is a safe configuration as it does not require any interaction from the callees when the SHALOSH ECO makes an alarm call. You can also require the callees to send a DTMF tone, but this requires regular training.

## Language Support



We added Turkish as an additional language.

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## Place of Accident

### Floor Precise Localization



Helpers need precise localization to find the place of accident. Some informations are more important than others: factory gate is good, especially for small companies, but in factories with several multi-story buildings we need building and floor: changing floors takes time. Unfortunately, floor differentiation requires a sufficiently dense beacon network, or our new height estimation.

In connection with a reference station, the Control Center can estimate the current height of the device with a resolution of 0.2m. The achievable precision is lower and depends on current wheather conditions, calm wheather conditions result in a higher precision. This new feature is especially useful when there are no real floors as in e.g. chemical plants when silos must be maintained: the lack of floors makes it difficult for Beacon based localization to differentiate between heights. Our new height estimation results in a good hint.

### ECO Mode



The SHALOSH ECO supports BEACON ECO and CIPPOLINO in ECO mode. Our BEACON ECO send its location in this mode usually for 10 years and up to 20 years. This mode is not understood by the gsm product line.

Besides the increase in lifetime, it also increases localization precision, especially when BEACON ECO are programmed to different transmission powers and intervals.

## Online Alarm Updates



Sometimes it is useful to get an update after an alarm has been triggered, e.g. when the lone worker runs from a fire and used the SHALOSH ECO to raise the alarm. The SHALOSH ECO can be configured to send updates, based on position changes or at certain time intervals.

## Configuration and Maintenance

### Configuration via SERVICE-STICK



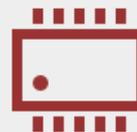
Configuration by SMS works well for remote distances, but sometimes it is better to use our new Service Stick: simply put the SHALOSH ECO into the charger and send the configuration using the Service Stick.

### SIM Card PIN



Setting a SIM PIN via SMS does not work, but using the Service Stick you can do it. You can now insert the SIM into the SHALOSH ECO and program its PIN, instead of putting the SIM into a second phone to change the PIN first.

### Firmware Update via SERVICE-STICK



You can also use the Service Stick to update the SHALOSH ECO Firmware, should we release a new one. This is especially useful when the SIM card does not allow data connections for whatever reason.

## Order Information

Product name	Article number
SHALOSH ECO	1104005
SERVICE-STICK	1201052

BEACON ECO 1201092

CIPOLLINO BEACON 1201191

Place order at [info@felsenmeer.ch](mailto:info@felsenmeer.ch).

## Next Newsletter

Newsletter type: Product announcement

Product name: **SERVICE-STICK**

Delivery date: **presumably week 45 / 2017**

Newsletter type: Product announcement

Product name: **BEACON ECO**

Delivery date: **presumably week 46 / 2017**



## Questions?

Contact me if you have any further questions or suggestions.



**Nedim Livadic**  
Head of Sales

Phone: +41 44 500 33 54  
Fax: +41 44 500 33 51  
Mobile: +41 76 431 33 54  
E-Mail: [nedim.livadic@felsenmeer.ch](mailto:nedim.livadic@felsenmeer.ch)  
Web: [www.felsenmeer.ch](http://www.felsenmeer.ch)

**Felsenmeer AG**  
Opfikerstrasse 45  
CH-8304 Wallisellen

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Felsenmeer AG, Opfikerstrasse 45, 8304 Wallisellen

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