



Enabling alcohol-related e-health services.



**ibac**alcosystems



## The opportunity.

### Benefits of Alcosystems iBAC solution

iBAC is the world's first extremely accurate alcometer designed for your pocket. It easily connects to your smartphone via the iBAC app that logs the results over the internet. Due to new innovative fuel cell technology the iBAC alcometer is both totally accurate and mini sized.

Today alcohol is creating huge problems for society and companies. Alcohol causes 195,000 deaths each year in the EU and the total tangible costs of alcohol to the EU society in 2003 was estimated to be 125 billion Euro, 1.3% of the EU GDP.

Companies within transportation and with dangerous environments are forced to take responsibility to control alcohol consumption among its employees. Examples are taxi companies driving school children, airline pilots, boat transportation, nuclear plants just to mention a few.

The iBAC from Alcosystems enables system integrators to create cutting edge Alcohol-related e-health solutions. The iBAC has an efficient and unique method for remote alcohol control that will radically increase quality and reduce cost.

# The iBAC

## Enabling cutting edge Alcohol-related services

Alcosystems patented solution iBAC is based on existing mobile technology and is an end-to-end solution ready to be implemented at various enterprise settings.

The iBAC solution provides a reliable, cost efficient solution for alcohol monitoring in various sectors, e.g. within transportation, healthcare and related industries where alcohol causes problems today.

The iBAC solution also have the potential to win new customers e.g. within transportation, healthcare and related industries where alcohol causes problems and be a risk today.

The example illustrated below solution consist of three core components:

1. The iBAC device
2. The mobile solution
3. View data on website or via API.



1. Person blows into iBAC



2. iBAC sends to smartphone via Bluetooth



3. Possible to view in web application

### Real life examples

Stockholm County Council

The iBAC is used by Stockholm County Council and currently, regular alcohol tests are carried out on patients undergoing a rehabilitation programme. With iBAC, any number of tests can be done at irregular times and with greater cost-efficiency. Thanks to the mobile link and the software, every exhalation test can also be integrated with and processed in the computer systems of the care institution.

The private ambulance company Samariten Ambulans AB uses the iBAC to carry out alcohol tests on its drivers for safety reasons. Because conventional alcolocks can suffer technical problems which prevent ambulances from starting, Samariten Ambulans has chosen iBAC for greater operational safety.

**Real life examples**  
Samariten

# Testimonials

## Stockholm County Council



KAROLINSKA INSTITUTE  
DEPARTMENT OF PSYCHIATRY  
S:t Görans hospital

Stefan Borg M.D, Associate Professor



*Stefan Borg*  
*Docent, verksamhetschef*

2011-02-08

### **Alcosystems and Stockholm Centre for Dependency Disorders in a joint evaluation of the IBac system**

IBac is a breathalyzer linked to a mobile phone sending data to a web based server which makes it possible for the staff to monitor treatment outcome continuously and interact with patients over the phone.

The device has been evaluated in a treatment program for patients with alcohol dependence at the clinic. We can conclude that these patients so far do accept and can handle the equipment and include it in the treatment setting.

We are now further developing the project to an interactive treatment program based on the breathalyzer and mobile phone making it possible to deliver treatment simultaneously support, advice and monitoring outside the clinic and during non office hours e.g. at home, at workplace or on holiday.

The impression so far is that the treatment method presented has the potential of the program treatment outcome at a lower cost compared to methods so far available.

Stefan Borg  
Medical director  
Associate Professor



<b>Technical specification</b>	<p><b>Bluetooth</b></p> <ul style="list-style-type: none"> <li>• Complete Bluetooth 2.0 Stack including</li> <li>• Profiles: SPP</li> <li>• Class 2 operation</li> <li>• Better than -80dBm input sensitivity</li> <li>• FCC certified: FCC ID: ED9LMX9838</li> <li>• Bluetooth SIG QD ID: B012394</li> </ul> <p><b>Dimensions</b></p> <ul style="list-style-type: none"> <li>• 73x27x16mm</li> <li>• 36 grams</li> </ul> <p><b>Power</b></p> <ul style="list-style-type: none"> <li>• Rechargeable lithium polymer battery</li> <li>• 100 reading on fully charged battery</li> <li>• Charge trough micro USB</li> </ul> <p><b>Enclosure</b></p> <ul style="list-style-type: none"> <li>• Material, aluminium</li> </ul>	<p><b>Certification</b></p> <ul style="list-style-type: none"> <li>• CE, EN15964 "Breath-alcohol testers other than single use devices"</li> <li>• LVD</li> <li>• FCC</li> </ul> <p><b>Accuracy</b></p> <ul style="list-style-type: none"> <li>• +/-0,02 mg/L for alcohol concentrations up to and including 0,20 mg/L</li> <li>• +/-10 % of nominal concentration for alcohol concentration above 0,20 mg/L</li> </ul> <p><b>Environmental</b></p> <ul style="list-style-type: none"> <li>• Operating temperature – 5 °C to 40 °C.</li> <li>• Humidity, operating up to 93 % RH</li> </ul> <p><b>Interface</b></p> <ul style="list-style-type: none"> <li>• Three leds (green/red/yellow)</li> <li>• One button (on/off)</li> </ul>
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