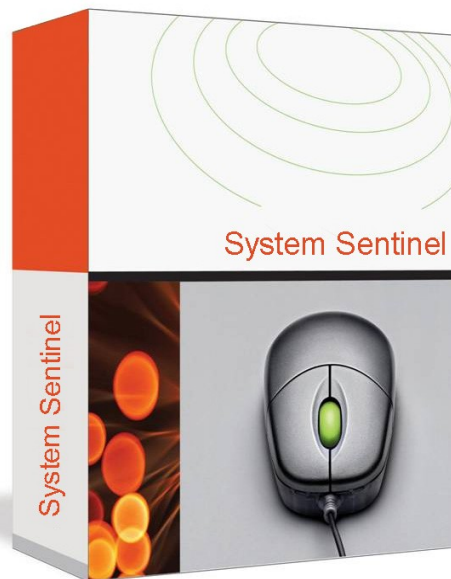


# Tropper Technologies

## 3G/4G Tool Suite

From your  
desktop, real  
time, system  
wide view of the  
network.



Tropper Technologies products offer unique web-enabled capabilities to the wireless industry.

The **System Sentinel** product comprises our mobile data collection clients and our Cobalt real time data viewer.

System Sentinel's Web 2.0 framework delivers a highly cost-effective solution (by minimizing installation costs and IT maintenance expenses).

---

**Argon** is a mobile-based client application that runs on Android-enabled User Equipment.

Argon measures performance (reflecting the handset processor capabilities) from the user's perspective. Argon Voice is an extension to the mobile client that provides call statistics.

---

**Iron** is a laptop-based client application that runs under the Windows O/S.

Iron measures performance from the user perspective (in the absence of any possible handset processor constraints).

Iron can be used to uncover the achievable upper bound on application layer performance. In this way, application layer performance from the user perspective on the handset can be compared to an achievable upper bound.

---

**Call Doctor** is a mobile call server that runs on a Windows laptop. Call Doctor will exercise any combination of Bluetooth enabled phones while accumulating call statistics. Measurement data is pushed to our real time server system.

Web: [www.troppertech.com](http://www.troppertech.com)  
email:sales@troppertech.com

---

Anywhere,  
Anytime,  
From Your Browser

---

**Cobalt** is a server-side, Web 2.0 cloud-based browser application that runs in Internet Explorer.

Cobalt receives real time data from the mobile clients, including location, and plots the position of the device on a map.

---

Cobalt provides a network level view of system performance, for all connected devices.



Tropper  
Technologies

From your desktop, real time, system wide view of the network.



System Sentinel delivers a high performance, cost-effective solution for:

- + Network Providers
- + Terminal Manufacturers
- + Infrastructure Manufacturers

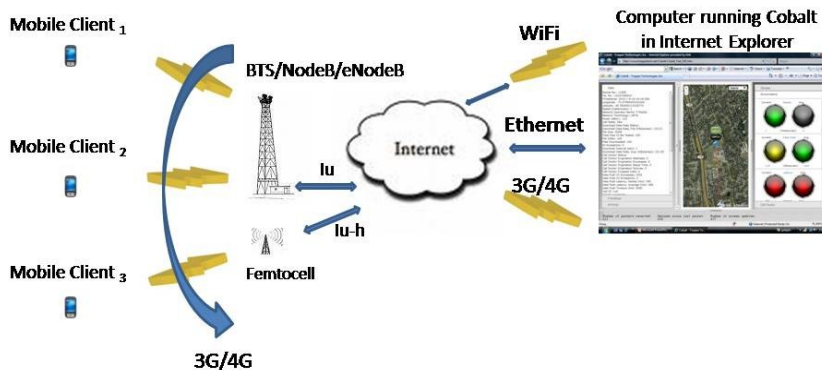
Anywhere,  
Anytime,  
From Your Browser

Metrics include:

- + Cobalt provides to any IE browser a continuous, real time view of your network's performance, **from the user's perspective.**
- + Many mobile devices can be monitored, delivering immediate feedback on one cell, area, or region.
- + Lat/Lon
- + Downlink Data Rate
- + Uplink Data Rate
- + Latency (HTTP)
- + Latency (Ping)
- + Voice Call Statistics
- + Video Quality (coming soon)

**Tropper Technologies System Sentinel tool suite provides real time, system wide view of your network's devices and performance**

Anytime  
Anywhere  
From your browser...



Tropper Technologies, Inc.  
www.tropper-tech.com

In addition to feeds from our mobile clients, Cobalt can accept data feeds from other interfaces in your network, providing a 360° view of system performance.

Technical Support \* Installation and Setup \* Maintenance \* Application Customization

Web: [www.tropper-tech.com](http://www.tropper-tech.com)  
email: [sales@tropper-tech.com](mailto:sales@tropper-tech.com)



Tropper  
Technologies