Remote management of telecom base stations

netbiter®

Save time, save energy, save resources!

Monitor and control all support equipment in your Base Transceiver Station (BTS) over the web.

HMS

netbiter®

Your challenges

- Reduce operating expenses (OPEX)
- Optimize energy consumption
- Instant control of KPIs
- Get full control of all your BTS sites

Cut OPEX without modifying your site

As the telecom industry becomes more competitive, you need to lower the expenses of your base stations. At the same time, you also need to maintain full control and reliable operations. By remotely monitoring your base stations over the web, you will have online control of all BTS support equipment. This will enable you to optimize energy consumption, reduce the number of service visits, facilitate maintenance and reduce your carbon footprint.

Netbiter is a remote management solution which achieves all of the above.
You will be up and running within a few days and the return on investment is usually a mere couple of months.

What is the energy consumption of my BTS?
How does this compare to my other sites?

Is the power generator ready to start?
What is the current fuel level?

Is the temperature optimal for the battery's operation?
Do I need to change settings on my FCU?

"If you can't measure it, you can't manage it."
Peter Drucker, US American Economist

Get full control of all support equipment on your BTS

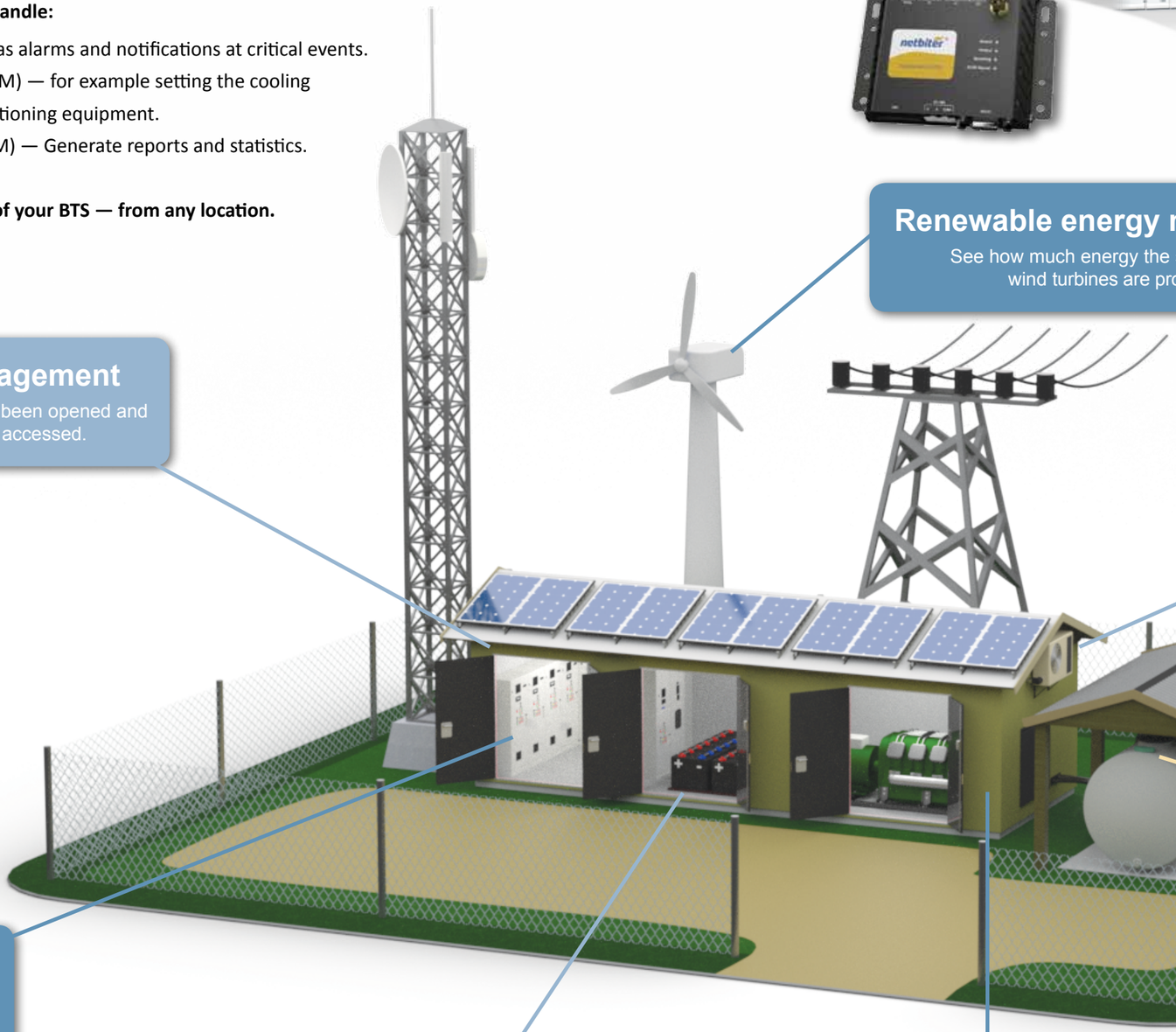
Netbiter allows you to remotely handle:

- Fault Management (FM) such as alarms and notifications at critical events.
- Configuration Management (CM) — for example setting the cooling temperature on your air-conditioning equipment.
- Performance Management (PM) — Generate reports and statistics.

All this adds up to better control of your BTS — from any location.

View all parameters from your BTS in an online dashboard.

Get alarms and reports immediately via e-mail or SMS.



Renewable energy management

See how much energy the solar panels or wind turbines are producing.

Access management

Detect when doors have been opened and the site has been accessed.

FCU/Aircon management

Check that temperatures do not exceed certain levels. Control and modify your site's cooling system.

Power metering

See exactly how much energy the BTS is consuming.

Fuel management

Monitor the fuel level in your diesel tanks.

Rectifier/battery management

Monitor the health of your batteries.

Genset management

Test-start your gensets via the web.

Pssst...

Did you know that the Netbiter solution includes an optional fuel sensor which will give you exact fuel levels at any point in time.

netbiter® — The solution

How Netbiter works

The Netbiter remote management solution is unique since it is an all-in-one solution including communication gateways, secure hosting servers and a web user interface.

A Netbiter gateway connects to the equipment in your base station using a serial, Ethernet or I/O connection. The gateway sends information via the Internet or the mobile network (GSM/GPRS/3G) to the cloud-based Netbiter Argos data center.

By accessing Netbiter Argos at www.netbiter.net, you can monitor parameters such as temperatures, statuses and levels from a regular web browser. Trending tools are available to analyze recorded data and alarms are sent whenever a critical event occurs in the field.

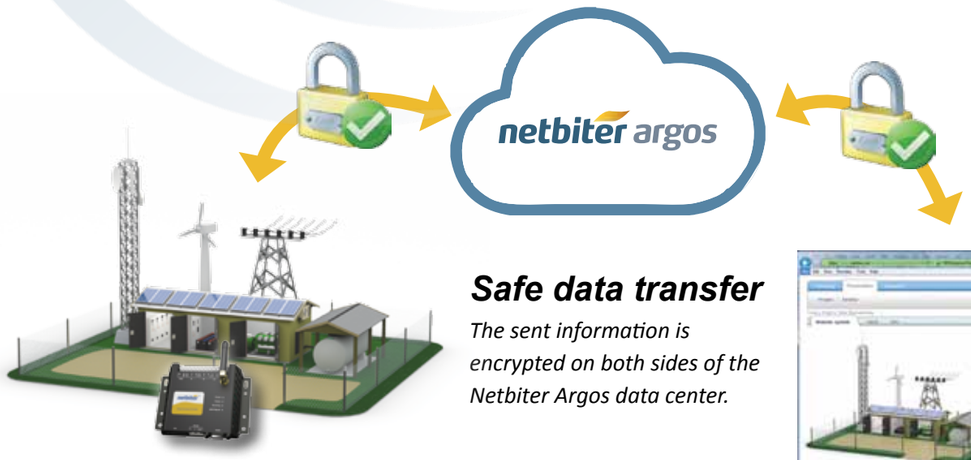
Remote start/stop

It is also possible to remotely start or stop equipment such as power generators with a click of the mouse.

See the data in your own system

You can also choose to integrate data from Netbiter Argos into your own NOC (Network Operations Center). Netbiter supports standards such as REST, SOAP, PHP and RSS enabling you to retrieve data from your sites and get it into your CRM, ERP, or billing system.

Since HMS offers Netbiter Argos as "Software as a Service," you have immediate access to all improvements and the non-stop development of Argos. No new installations or software upgrades are required.



Safe data transfer

The sent information is encrypted on both sides of the Netbiter Argos data center.

Connect and go!

When installing Netbiter, you simply connect the Netbiter gateways and leave the site. All configuration can be made from the office.

What you get

HMS offers a packaged solution for telecom base stations. This is a complete kit including a Netbiter gateway to connect to the BTS equipment and pre-configured dashboards for telecom base stations.

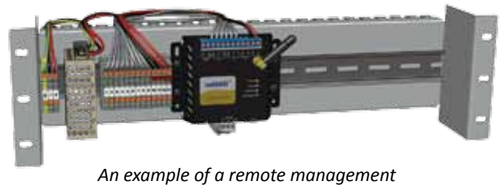
You then add your choice of:

- Fuel sensors
- DC power monitors
- DC/DC converters
- Temperature sensors
- GPS senders
- etc.

Ready-made or customized — it's up to you

The Netbiter solution for telecom base stations comes with ready-made building blocks, so called "profiles", which are preconfigured functions for power metering, fuel management, gensets etc.

You can also easily add your own devices and design dashboards which show data exactly the way you want.



An example of a remote management package on a 19" rack.

What users say

Thousands of Netbiter units are monitoring business-critical field equipment every day. Here's what two of the users say.

Keeping Azerbaijan talking

"Netbiter has spared us a lot of service trips which means savings in time and money, but more importantly we have better control of the power generators and can monitor all parameters in real time through a web browser."

Yashar Mailov, Service Manager, NetService.

NetService handles the maintenance of the BTS sites for Azerbaijan's leading telecom company, Azercell.

Making energy savings measurable

"The Netbiter solution provides a stable platform from which to monitor our sites from any location. The automatically generated reports keep our site owners up to date with the relevant information with minimum input from us."

Andrew Griffin, General Manager, Cinergy

The Cinergy Telecom Wind Tower is a combined telecommunications antenna and a wind turbine making the base station practically self-supporting when it comes to energy.

HMS Industrial Networks

The Netbiter solution is developed by HMS Industrial Networks, a leading independent supplier of industrial networking and remote management solutions. HMS' knowledgeable staff along with distributors and partners in over 50 countries worldwide, are there to help you and your business minimize service operating costs and improve equipment efficiency.

Support from the innovator of the industry

HMS is one of the pioneers of the remote management market and has grown to become one of the leading knowledge hubs within remote management and machine-to-machine communication. This expertise is at your disposal all the way through your remote management project.

Try a free online demo on:

www.netbiter.com

HMS Industrial Networks – worldwide

HMS - Sweden (HQ)
Tel : +46 (0)35 17 29 00 (Halmstad HQ)
Tel: +46 (0)35 17 29 24 (Västerås office)
E-mail: sales@hms-networks.com

HMS - France
Tel: +33 (0)368 368 034
E-mail: fr-sales@hms-networks.com

HMS - Italy
Tel : +39 039 59662 27
E-mail: it-sales@hms-networks.com

HMS - United States
Tel: +1 312 829 0601
E-mail: us-sales@hms-networks.com

HMS - China
Tel : +86 (0)10 8532 3183
E-mail: cn-sales@hms-networks.com

HMS - Germany
Tel: +49 721 989777-000
E-mail: ge-sales@hms-networks.com

HMS - Japan
Tel: +81 (0)45 478 5340
E-mail: jp-sales@hms-networks.com

HMS - Denmark
Tel: +45 35 38 29 00
E-mail: dk-sales@hms-networks.com

HMS - India
Tel: +91 20 40111201
E-mail: in-sales@hms-networks.com

HMS - UK
Tel: +44 (0) 1926 405599
E-mail: uk-sales@hms-networks.com

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