

## Cold Chain Monitoring Just Became Affordable & Reliable!

Temperature control and monitoring are absolutely vital and we cannot in this day and age rely on humans with pens and paper checking the temperatures of important products, especially in the pharmaceutical or medical field.

**PROXCOMM** has the least-cost, reliable service for transportation and on-site monitoring of temperature and humidity, via our **BLE (Low Energy Bluetooth) proximity beacons/sensors**.

**A beacon is a small Bluetooth radio transmitter.**



It's like a lighthouse repeatedly transmitting a single signal that secure (BLE) devices can see. Instead of emitting visible light, though, it broadcasts a radio signal that is made up of a combination of letters and numbers transmitted on a regular interval of approximately 1/10th of a second. A Bluetooth-equipped device, a smartphone or tablet can "see" a beacon once it's in range, much like sailors looking for a lighthouse to know where they are.

Whether in the transportation process or on-site storage, the demand for constant monitoring has never been so important as are the secure, safety and liability factors.

Most of the pharmaceutical products like vaccines, serums, etc. are temperature-sensitive and require special handling once manufactured or ready for on-site storage. To ensure the effectiveness of the vaccines, they need to be stored within the temperature range specified by manufacturers. Most of the vaccines are heat-sensitive; thereby need customized storage and transportation to ensure their effectiveness and negate liability.

The case for instant monitoring with data-logging has never been so demanded and now so secure, reliable and cost-effective from **PROXCOMM**.

The process of transporting biological products involves sophisticated technologies such as refrigeration systems and is termed as a **cold chain**.

The **cold chain** is a network of cold stores, freezers and cold boxes organized and maintained to prevent vaccines from losing their integrity during transportation, storage, and distribution; from factory to the point of use within the healthcare industry.

There is an inevitable need for a system that can monitor the **cold chain and logistics** continually within the healthcare chain. The system generates actionable data and provides it to the designated person at each level of the **cold chain** in “**real-time**”.

Most of the healthcare organizations that produce or store vaccinations incorporate strict guidelines to maintain the potency of the vaccine. This includes maintaining the effectiveness of the vaccines at all parts of the cold chain like mentioned below:

- Devise a policy on safe storage of vaccines; also assign a designated person responsible for receipt and storage of vaccines
- Periodically review storage temperature and humidity readings to ensure that vaccines have been stored correctly. This is done to make sure that vaccines have not been subjected to temperature excursions outside manufacturers’ specified temperature ranges before they are administered to patients (This is replaced with **PROXCOMM Beacon/Sensor technology** for “**real-time monitoring**” nationally and at a centralized/regional/local level)
- Devise procedures for remedial action in case of temperature excursions

**Hospitals, healthcare service providers, and logistics** cannot do without refrigerated systems when it comes to storing or transporting vaccines or other biological products that can become inert outside a manufacturer’s recommended temperature or humidity range. This caters to the importance of cold chain monitoring systems in healthcare. To ensure the patient’s safety, monitoring these facilities is extremely important and also the ability to take remedial action in case of some failure occurring is equally critical.

Healthcare service providers must use real-time monitoring and report for storing and transporting biological products. **PROXCOMM Cold Chain** provides reliable information to the pharmaceutical companies when communicating with regulatory entities and also reduces lost profits from damaged biomedical products.

The **PROXCOMM platform** comprises of beacons/sensors for monitoring temperature and humidity. The sensors are connected via (BLE) Bluetooth Low Energy to the Smartphones or tablets and via cloud networking. **Beacons/Sensors** continuously send the temperature and humidity parameters to your central data collection hub. The central collection hub could be a cloud, as well. The data is further interpreted and meaningful information (displaying parameters important to the user) is sent to an application hosted at the monitoring facility or on smartphones.

The **PROXCOMM platform** offers each and every person responsible for the cold chain with a user interface that provides a visual display of “**real-time information, messages, and alerts**” on vital parameters. The alerts might warn a person that the temperature of the shipment is not as per pre-defined safe temperature range, or that a door is open causing the temperature to rise above the specified temperature range, etc. This ensures that a corrective action can be taken instantly.

**Our cold chain packaging service includes:**

- **Calibrated continuous temperature monitoring systems**
- **Quality Management Systems to monitor your product**
- **Provision of temperature data loggers**
- **Improvement of supply chain traceability**
- **Controlled room temperatures**

The **PROXCOMM network** is connected to the cloud which is monitoring the **entire cold chain**, ensuring the safety of the products.

The **beacon/sensor data** from the transport and storage is stored in a centralized location. The system provides an additional benefit of generating automated reporting of temperature and other parameters. The **PROXCOMM platform** provides visualization of both fixed and mobile locations within a cold chain operation.

Monitoring the **cold chain** provides an additional benefit of reducing or optimizing energy consumption. In a storage area, if the monitored temperature is running colder than necessary, the corrective measure can be taken to reduce the energy usage.

**This is no longer a vision, but a true reality.**

**WE ARE IN THE NOW & KEEP YOU; IN THE KNOW...**

**So, visit one of the websites on your Smartphone and find out for yourself!**

[www.commsmart-global.com](http://www.commsmart-global.com)    [www.proxcomm.technology](http://www.proxcomm.technology)

[www.proxbeacon.technology](http://www.proxbeacon.technology)    [www.vote4me.technology](http://www.vote4me.technology)

**Email: [proxcomm@commsmartglobalgroup.com](mailto:proxcomm@commsmartglobalgroup.com)**

**Telephone: USA: (515) 200.7068**

**CommSmart Global Group – A LexisNexis Risk Solutions Partner**

