



# B Medical Systems

Smart vaccine refrigerator provides people with life-saving medicines worldwide

## The customer

B Medical Systems specializes in lifesaving cold chain equipment for safely storing and transporting vaccines around the world.

## The requirements

To assure the quality of vaccines, B Medical Systems sought a global and reliable partner who could help them track and monitor their vaccine refrigerators.

## The solution

Using KPN's IoT connectivity, B Medical Systems developed a logger which supplies a worldwide traceability system and allows for realtime monitoring of the condition of the vaccines.

## The result

Thanks to the smart logger B Medical Systems can safely and securely transport vaccines to their international destinations, enhancing the quality of care and life of children worldwide.

**Luc Provost, CEO of B Medical Systems in Luxembourg explains the importance of integrating technological solutions, such as the logger developed in collaboration with KPN, into their vaccine refrigerators and cold chain systems, especially when working in an industry which, by its very nature, quantifies success or failure in human lives.**

## Cold chain delivery in medicine logistics

'B Medical Systems enables cold chain delivery in medicine logistics. We ship vaccines all over the world, to the most far away destinations.

As of today, there are still many thousands of "blind" products employed in our field and very few solutions that enable the monitoring of storage units used to transport vaccines.

Vaccines which are not kept cold during transport will not be effective. We were looking for smart solutions for tracking and tracing the shipment of vaccines, including monitoring the temperature of the refrigerator, so the quality of the medicine could be assured. Every single life that we save is a matter of personal pride.'

**'The only way to secure the stability of the temperature is to have the full traceability solution which we offer today'**

[kpn.com/references](https://kpn.com/references)



#### Smart & cost-effective logger

‘Thanks to our collaboration with KPN, and the use of its IoT connectivity, we have developed a cost effective smart logger which allows us to monitor cold chain systems worldwide via Google Maps and safeguard transport conditions.’

#### User-friendly

‘One of the challenges we face when adapting to new technologies is the resistance to change. We have now developed a user-friendly dashboard, which manages connectivity, as a web-based application. Its ease of use and “click-and-play” design encourages implementation in the cold chain. It allows users with limited technical experience to efficiently monitor temperatures and detect unauthorized opening of the refrigerator during transport.’

‘Technology can help save people’s lives and we cannot let it fail us in these circumstances’

#### Reliability & worldwide connectivity

‘Reliability is vital to us because human lives are at stake and therefore it was critical to choose a partner who could meet this demand. We found that KPN has a human approach in terms of its organization. We were speaking to specialists who understood our problems and challenges. KPN connected us

with a supplier of sensors and provides us with the best worldwide IoT connectivity with non-steered roaming in its class. This is crucial to our business as it supports our desire to track and monitor the vaccine refrigerators realtime in transit, assuring the quality of the medicines.’

‘We really needed not only a global partner but a reliable partner and this is what we found in KPN’

#### Disease eradication

‘The introduction of these technological innovations into our cold chain system helped us to eradicate polio in Nigeria, which was a very significant milestone in our goal towards a disease-free society. Our newly established cold chain in Congo is also proving effective in aiding the eradication of certain diseases. Allowing technological solutions to participate in saving lives is the best thing that you could hope for.’

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