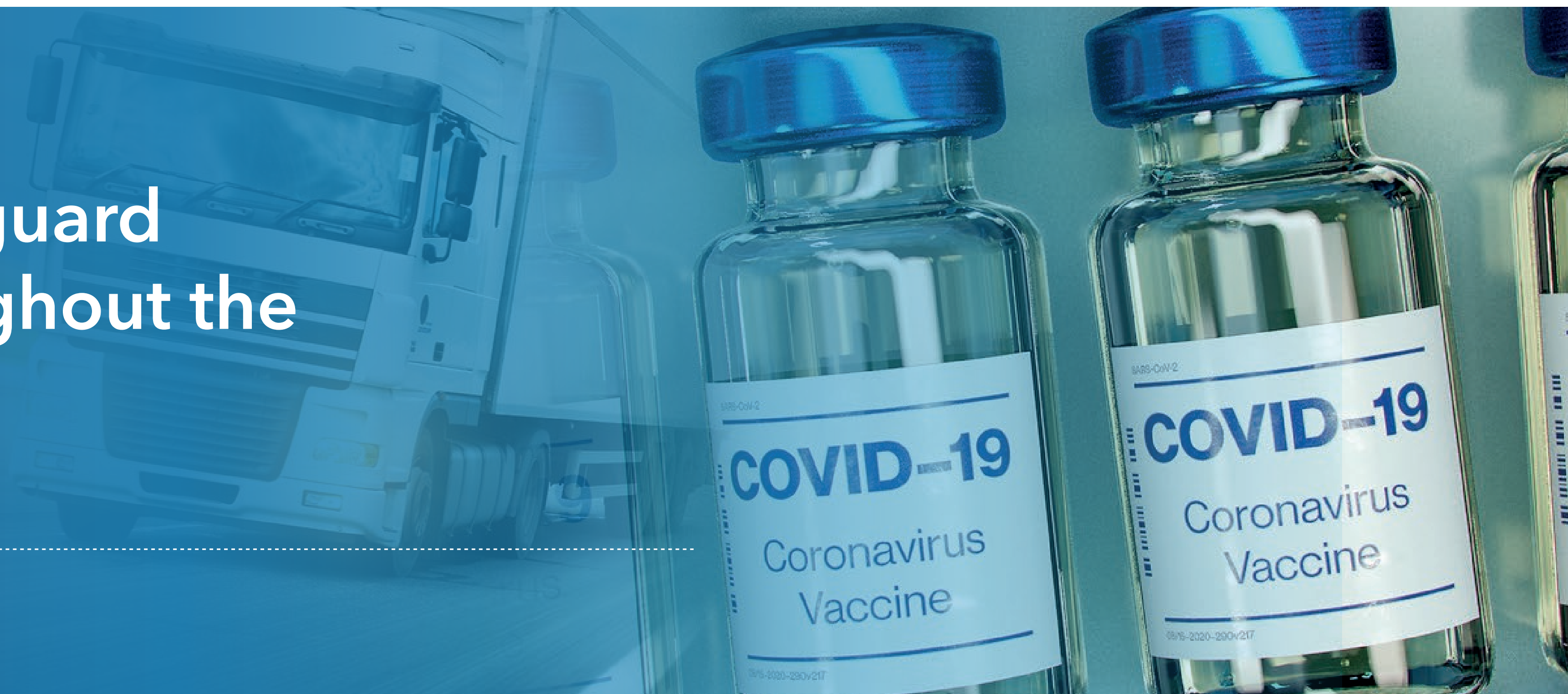




Validation & Monitoring
Solutions

3 Ways to Safeguard Vaccines Throughout the Cold Chain

eBook



[ellab.com](https://www.ellab.com)

Global expertise with local reach



Validation & Monitoring Solutions

1. Temperature Mapping

Quality comes from preparation, and temperature mapping is a critical process to undertake before storing vaccines.

Why?

Temperature mapping is required for FDA and GXP (GMP, GLP) compliance. These guidelines are valued globally for the production, transportation and storage conditions of vaccines.

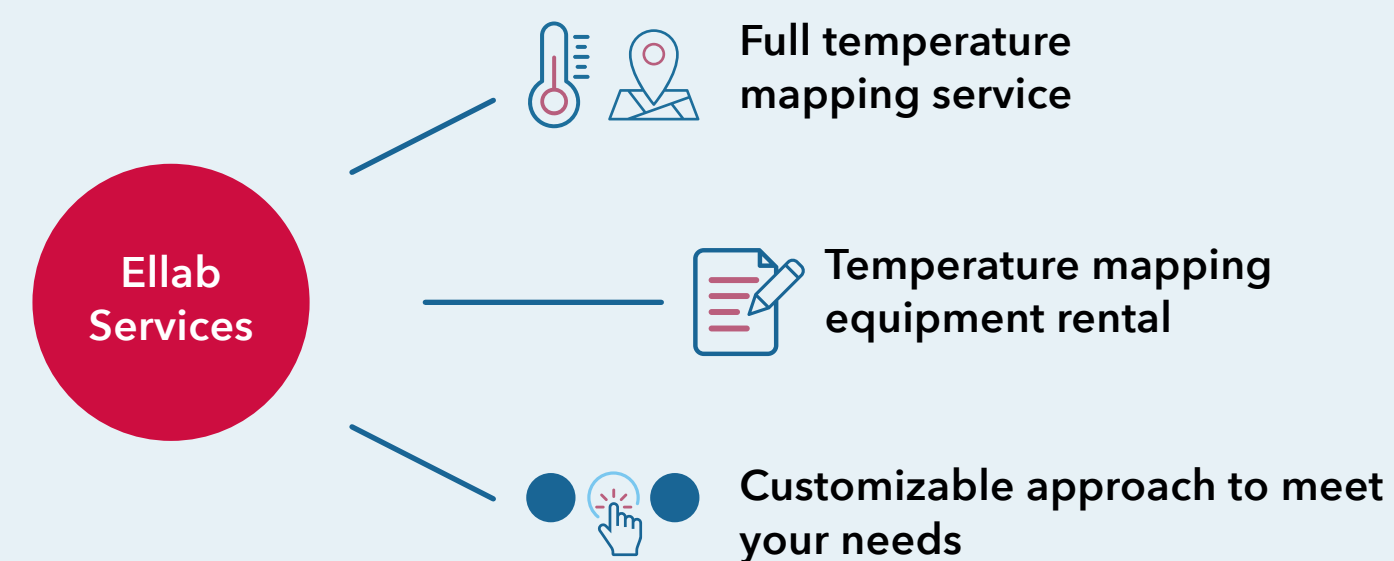
When?

Perform temperature mapping when a situation has changed, whether new equipment is installed, repaired or relocated.

How?

Ellab's validation teams are experts at performing temperature mapping of warehouses, chambers and freezers - and stand ready to deploy to assist your needs.

For more information about the **facts and considerations** of temperature mapping, [click here](#) for our whitepaper.



2.

Temperature Data for Vaccines in Storage

There are many solutions for recording temperature on the market, making it difficult to determine the most appropriate one for high-end applications.

Consider these key areas when looking for your ideal solution:

Data loggers or Continuous Monitoring systems

The right solution depends on your specific application requirements. Choosing a supplier that provides both solutions will increase your chance of finding the most suitable and cost-effective solution for your business.

Accuracy of a product at ultra-low temperatures

The highly accurate [TrackSense® loggers](#) give you the reliable data necessary for success. With an accuracy of ± 0.1 °C, TrackSense ensures certainty.

Reliability of a product at ultra-low temperatures

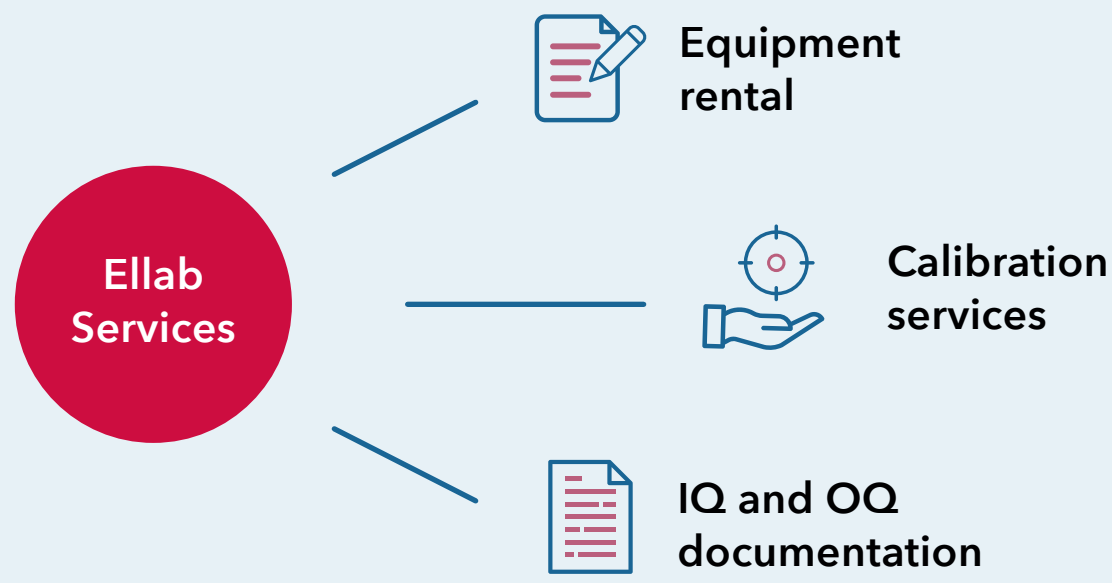
Measurements down to -90 °C is a simple task for the [TrackSense® Frigo logger](#). And with the LED indicators and alarm function, you'll immediately know if a product goes beyond the defined limit.

Gap-free data across multiple zones

Ellab's [continuous monitoring systems](#) offer unmatched signal strength for 24/7 continuous monitoring. You'll always stay informed through text or e-mail alerts should a product reach a temperature outside its defined threshold.

Audit-ready reporting tools

[Ellab's software](#) is FDA 21 CFR Part 11 compliant and designed with data security in mind. Retrieve historical data at the click of a button and effortlessly generate various reports.



3. Temperature Data for Vaccines in Transit

Knowing if and/or when something went wrong during transportation could prevent detrimental damage further down the supply chain. This can be helped by using temperature monitoring equipment for your critical cargo.

Here are some key areas to consider when looking for your ideal solution:

What is the journey duration?

Longer journeys may require more event records, making a unit's memory capacity critical.

Are there any technology restrictions?

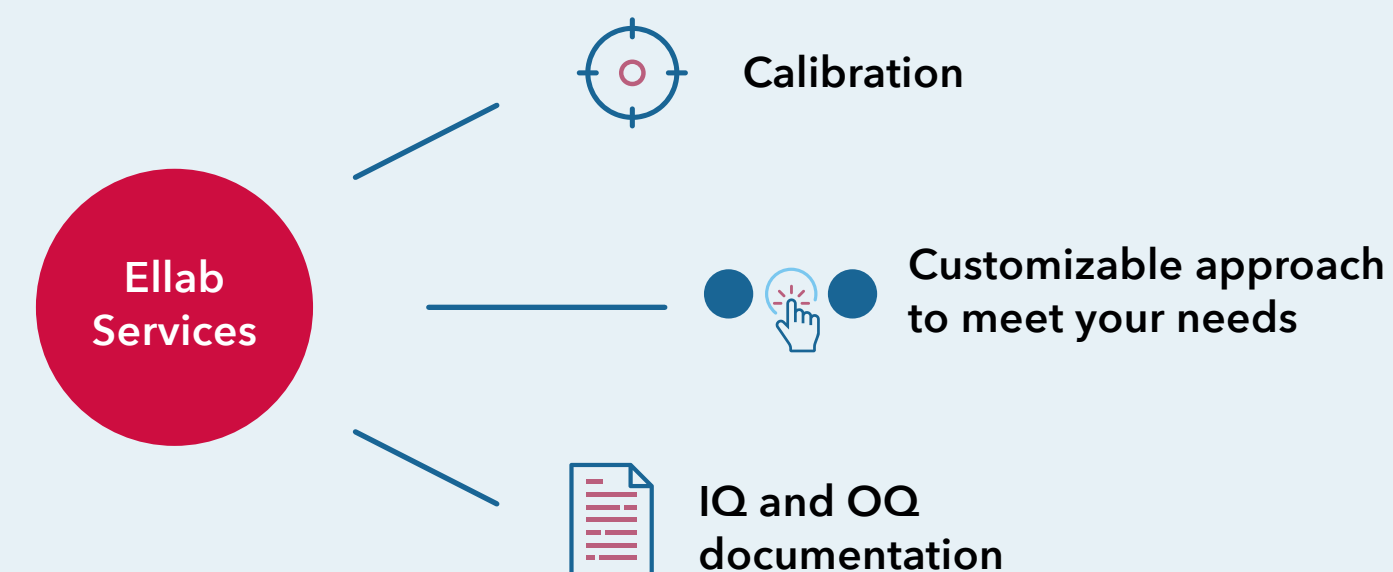
The need for a flight mode may prevent the use of a real-time data option, making [wireless data loggers](#) the ideal solution for these types of journeys.

How often is data required?

Knowing whether data is required at the end- or throughout the journey will help you determine if real-time data is the solution for you. Ellab offers [GSM transmitters](#) for continuous data in real-time

Does the data need to be integrated into an existing software?

Easily integrate all of your Ellab transportation monitoring devices into [the EMS software](#) for a complete overview. EMS is often used within cold storage facilities as a comprehensive and gap-free solution for cold chain monitoring.



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EMS



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