



## Boost COVID-19 test accuracy using EAM

Using Infor EAM asset management along with IoT condition-based monitoring device

The Centers for Disease Control and Prevention (CDC) guidelines for storage and transport of COVID-19 specimens specify that they should be ideally frozen to  $-20^{\circ}\text{C}$ . As an alternative, specimens may be held between  $2$  to  $8^{\circ}\text{C}$  and shipped overnight to test labs while being refrigerated. However, transport is often the weak link in terms of safety procedures due to inconsistent temperature conditions, and therefore test kit samples are most at risk of becoming invalid.

Following these guidelines will reduce specimen rejection rate as temperatures outside of this range can result in catastrophic 'false-negative' results. A false-negative has dangerous implications as individuals may not self-quarantine if they do not believe they are ill, resulting in continued spread of the virus.

This solution helps maintain the temperature of the samples within the acceptable range as prescribed by the CDC guidelines.

## Key takeaways

The testing cards are monitored for time duration (3 days or 5 days depending on temperature) using Infor EAM's asset management feature with IoT. The testing cards are placed as close to the test vials as possible; the test samples are monitored within the  $2$ - $8^{\circ}\text{C}$  temperature (validity of 3 days) or below  $-20^{\circ}\text{C}$  (validity 5 days). The card combines two indicators: Warm and Freeze, ensuring that COVID-19 tests stay within the required range throughout their journey. A simple 'red=bad' system provides a clear warning that the test kit samples have become invalid at a glance. This ultimately protects the patient from a false-negative diagnosis and may prevent further spread of the disease.

**Reduce false negative results with clear temperature breach identification, saving resources and valuable time**

## Key benefits



For more information about how Wipro helps reduce false COVID-19 negative results, please write to us at [info@wipro.com](mailto:info@wipro.com).



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