

Smarter
technology
for all

Lenovo

Certified Solution Partner Profile

IoT, Edge and Cloud technologies to help fight Covid

A touchless solution that helps flatten the curve and provide real time data that is accurate and affordable.

Introduction



Clovity and Lenovo collaboratively developed a Touchless Thermal Body Scanner that within a second can detect and record body temperature at 2 meters away.

Clovity is an IoT as a Service platform and we bundle cloud, software and hardware into an affordable, accurate and customizable solution for returning back to work or areas of interest.

Our solution enables employers to screen for possible elevated body temperatures as a way to keep facilities safe. The data gathered at the edge can provide insights into trending and exact measurements of screening indicators.

Leveraging Lenovo's ThinkCentre M90n Nano IoT Smart Edge device and Microsoft Azure services, the solution combines to create a touchless experience to managing body temperature screen.

Challenges



We know that we will get back to work and every work campus and facilities will implement some type of new screenings to keep their employees, their customers, their students, staff and their vendors safe to help prevent the virus from spreading in their community. Until a vaccine is created, the virus will still be a risk, but employers and facilities administrators can use these tools to help keep the spread of the virus low and workplaces as safe as possible.

Solution



Clovity along with leading US Thermal technology OEM manufacturer and install provider has developed an end-to-end Smart Thermal IoT Solution deployed on Azure to deliver a safe and easily deployable infrastructure to provide accurate and reliable thermal camera data. Clovity's connected software provides the aggregation and visualization of data on a single screen and can easily be integrated with entrance access controls and enhanced to be secure contactless facial recognition security solution and/or attendance management system

Features/Results



Designed and calibrated for body temperature

- Unlike typical industrial thermal cameras, technology was developed for precise body temperature measurement and includes a fixed heat source that maximizes accuracy.

Enables social distancing

- Non-contact, non-invasive screening eliminates contact between screening personnel and participants

Affordable

- Pricing includes HW, SW and Installation and the solution is designed for mid-tier or higher market

Fast, automated screening

- In seconds, the system automatically detects a face, finds the most reliable spot to measure and displays a pass/fail alert based on the customizable alarm temperature

Proven technology

- Thermal imaging has been used globally for years as a fast, non-invasive way to measure temperature

Easy to install and easy to use

- Start scanning in minutes post installations

Turning Legacy Machines into Smart Manufacturing

Creating IoT solutions out of legacy non-connected machines exposing new data using CSensorNet with Lenovo ThinkCentre IoT Gateway

Introduction



Clovity and Lenovo collaboratively developed a solution for the Manufacturing industry that provides an answer to gathering data out of legacy machines. This edge-to-cloud solution enables manufacturers to improve operations by gathering and processing data at the edge. Leveraging Lenovo's gateway ThinkCentre M90n Nano and Telit's DeviceWise and Clovity's CSensorNet to manage all IoT data exchanges. The solution brings into the enterprise, legacy machinery with various modern protocols including Wi-Fi, BLE, and cellular/LTE. Opening the power of edge data collection, Cloud for analysis, visualization and Machine Learning.

Clovity's CSensorNet CDataInsight is the single screen that gives users a way to remotely monitor, manage and control operations. The bundle of CSensorNet and Lenovo's IoT ThinkCentre Gateway along with Telit's DeviceWise, is at the center of the platform delivering powerful performance in an ultra-portable size enabling data processing and device security at the edge.

Challenges



Industrial manufacturing still deals with the legacy of machines and machinery that are not connect and therefore Operationally can be come a 'black box' of untapped data. Integration of these disparate machines can create problems with adaptability and protocols requiring custom development around existing system architecture or worse, require Operators to build a new system all together.

Solution



Clovity along Telit's DeviceWise and Lenovo's gateway created a hardware, software and cloud bundle that easily attaches to legacy machinery. This unique bundle provides security, integration and seamless data transfer to cloud on day 1. With CSensorNet, you can easily add new machines into the overall IoT solutions. This 'future-proofs' machines and streamlines maintenance on legacy machines.

Features/Results



Without the need for custom code, CSensorNet helps you:

- Get all your legacy non-IoT devices added to the enterprise and receive data immediately.
- Decrease installation and maintenance costs by eliminating the use of intermediate PC technology, custom programming and home-grown solutions.
- Reduce time to market by providing connectivity that breaks through complicated data transfer layers by using Lenovo's Gateway and Telit's DeviceWise.
- Benefit from enhanced security and reduced system integration cycles
- Scale horizontally and vertically to manage Operations with new device provisioning, monitoring and management.