# CyberLogitec Sets Sail with TIBCO StreamBase
## An IoT platform with increased stability and expanded functionality

"By implementing TIBCO StreamBase for our IoT platform, we can draw a big picture, changing our behavior and our thinking from reactive to proactive."

—Huynpil Kang, Team Manager, Terminal Automation

## CHALLENGE

With branches all over the world, CyberLogitec runs a 24 hour-a-day, seven-day-a-week maritime logistics business for its global customers, 90 percent of whom are outside of Singapore. Eighty-five percent of employees are experienced developers who help to service customers with IT technology.

The primary challenge was automating shipping terminal operations. Ninety-one percent of these facilities still used manual operations, such as closed-circuit TV and radio-controlled monitoring.

Additionally, CyberLogitec wanted to gain more insight into the location of its equipment, meaning not only data but the display of its movement in real time. The company wanted to implement an IoT solution that would connect edge devices including distributed generation planning application (DGPA) devices and those that collect readings from trucks and cranes, including fuel, speed, engine temperature, and movement. Along with these capabilities, the company needed to improve its user interface and user experience to make data more understandable for customers.

"We needed to implement smart operations with a new architecture to satisfy growing customer requirements," said Huynpil Kang, team manager of terminal automation.

## ABOUT

CyberLogitec empowers the global supply chain with innovative technologies that address operational challenges, improve visibility, and meet industry demands. As a global leader in the maritime, port, and logistics industry, CyberLogitec's flexible, end-to-end solutions and consulting services help customers adapt quickly to evolving needs.

## RESULTS

- 60% reduction in delivery time; 2-month deployment time
- 3 developers needed to manage the platform
- Expanded IoT platform functionalities

## SOLUTION

Due to competitive pressures, CyberLogitec needed fast implementation of its new IoT terminal automation solution. To meet customers' increasing requirements, it turned to TIBCO and TIBCO StreamBase® streaming analytics for workflow programming and processing of real-time streaming data from terminals around the world.

Data management and data streaming are natively supported in the StreamBase® platform. It provides CyberLogitec with a simple server architecture that allows developers to create any kind of adapter or API to interface with edge devices or manage low-level bandwidth. CyberLogitec now has full visibility on its data from all terminals in real time, including equipment status and operational conditions. Only three developers manage this global system.

"We don't think about the low-level technical details. Our developers can concentrate on the higher level work that provides increased value to our customers," said Kang.

## BENEFITS

### FASTER DELIVERY TIME

Before using StreamBase, numerous developers at CyberLogitec were spending time developing home grown solutions. When customers wanted to customize data views for each terminal, the work took up to 10 months on average. Now, with StreamBase, developers can set up an entire solution in two months.

"The two-month development period is a miracle," said Kang. "We fully applied our StreamBase platform and reduced the analysis period, which made development faster than before."

### EXPANDED FUNCTIONALITY

"Since the beginning of our work with TIBCO, we haven't experienced any unplanned downtime," said Kang.

Before StreamBase, developers could only concentrate on solving problems. Now, with greater system stability, CyberLogitec can offer customers more options, in both infrastructure and functionality.

Tools such as virtual reality and augmented reality have been added. Virtual reality is helping train employees on terminal operations to reduce risk, and augmented reality is being used to enhance safety.

### FASTER, BETTER DECISION-MAKING

With StreamBase, CyberLogitec's developers and business analysts can draw a big picture of how all their tools work together, enabling faster, better decision-making.

## FUTURE

CyberLogitec hopes to adopt machine learning and real-time analysis on its platform to enable predictive maintenance for terminal equipment. The company is also looking to implement the TIBCO Flogo® lightweight integration engine to handle IoT device signals for enhanced edge computing in the cloud for faster data availability.