

Case Study

Providing Advanced Time and Attendance Terminals

Industry

Time & Attendance

Partners



GIGA-TMS INC.
Quality, Delivery & Service

Hardware

TR610 Programmable Time Recorder

Organization

Giga-TMS is a Taiwanese OEM/ODM making time and attendance systems, access control, mobile data collection and security systems. The company started manufacturing magnetic cards in 1987 and moved into RFID technology long before it became popular. Giga-TMS was one of the first companies in Taiwan to move into RFID research. Now, two decades later, it owns RFID know-how and provides high-standard reliable products.

Challenges

Giga-TMS has created a new simple yet feature-rich time and attendance terminal. The terminal has a graphic LCD display and built-in network connectivity allowing multiple management options (on-screen menus, web interface and PC software).

One of the primary objectives of the new device's R&D program was full integration of new terminal with a powerful time & attendance software for uploading attendance data, creating reports and exporting data to payroll systems.

Solution

Giga-TMS called on Tibbo Technology to assist with product design and attendance software integration, and Tibbo came up with the TR610, built around the EM1000 BASIC-programmable module. The TR610 was built to work with AggreGate from the ground up.

AggreGate has a specialized Time and Attendance module which is easily adopted to any kind of OEM attendance and security devices. This module goes hand-in-glove with the TR610. The TR610 can enroll itself automatically with AggreGate Server and begin streaming attendance data in near-real-time over the network. While the terminal can be configured

via AggreGate, its web connectivity and on-screen menu work even when it's enrolled with AggreGate.

A converter that transforms TR610's native Card Read events into generic Attendance events defined by AggreGate Time and Attendance system is based on AggreGate's modelling engine. This converter designed with almost no programming was the only component required to bridge TR610 to AggreGate.

Benefits

Combination of time recorders with open-source firmware and attendance control software based on an enterprise device management platform provided a lot of benefits:

- Extreme flexibility, easy adaptation to different countries' standards
- Centralized configuration of time recorders
- Direct control of terminals, e.g. remote door relay activation
- Automatic uploading of attendance events to the central storage
- Real-time attendance monitoring
- Organization structure and working shift management
- Out-of-the-box reports
- Data export and import



About Tibbo

Located in Taipei, Taiwan, Tibbo Technology Inc. brings simplicity to the embedded world defined by enormous complexity of operating systems, programming languages and design tools. Tibbo's hardware, Tibbo-BASIC programming language with its Tibbo IDE software and the AggreGate Platform offer a complete solution for delivering robust, distributed automation and monitoring systems.

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