## IoTstar: IoT Cloud Management Software

IoTstar is software developed by ICP DAS for use in remote monitoring and management of the controllers in a variety of industrial applications. IoTstar offers a user-friendly and intuitive Web interface that allows users to implement system settings and monitoring on the remote controllers by a few clicks; no programming is required.

After the Network connection is built between the remote controllers and the IoTstar via the Ethernet/3G Network, the IoTstar can then communicate with the remote controllers to implement the System Setting /Status Monitoring (it works even the controller is in a Private IP Domain configuration environment, for example : Locate behind the Firewall or use a Dynamic Virtual IP).
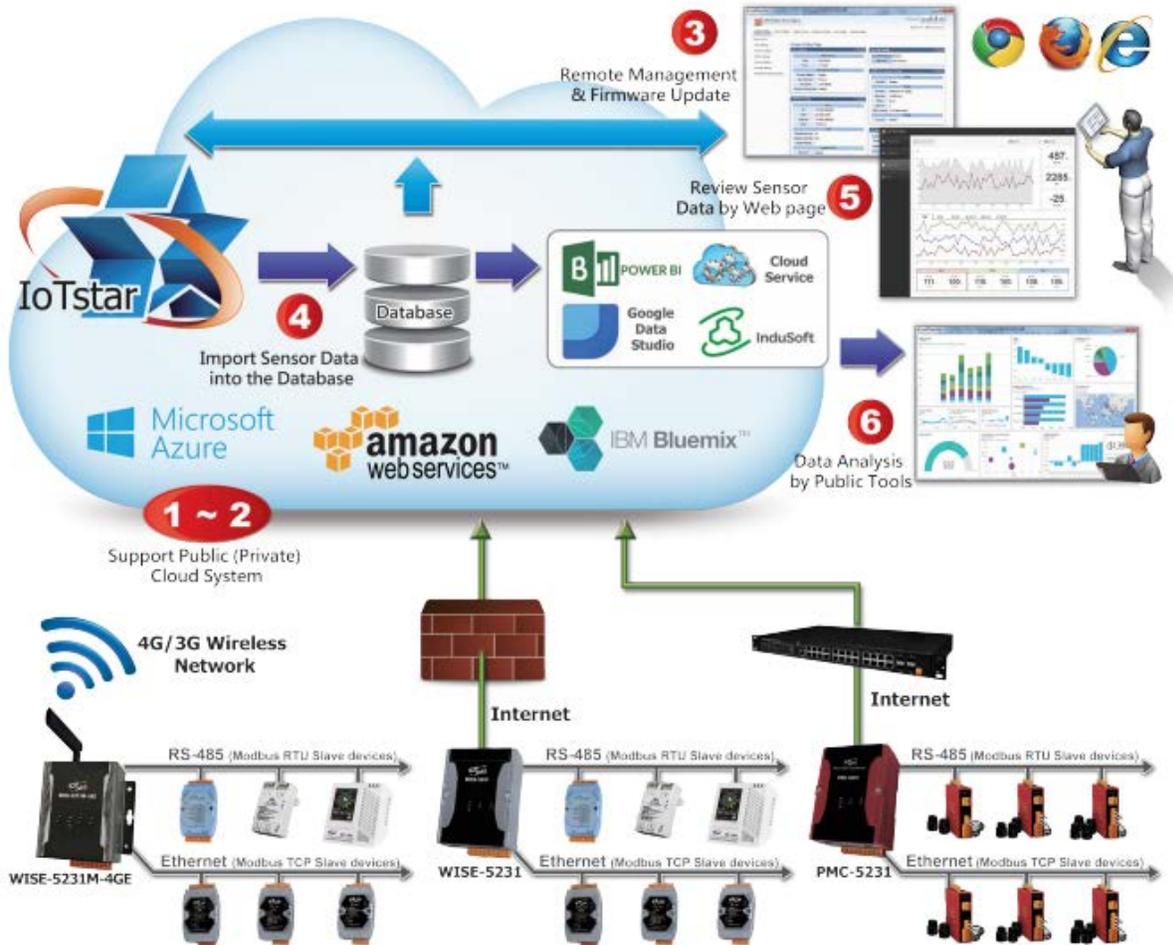
With the microSD card, the controller can provide the Data Logger function to real-time record data of the Sensors and I/O modules and send the data log files back to the IoTstar via FTP protocol. When the IoTstar receives the data log files from the remote controllers, it will import the content of these files into the Database. And then these recorded data can be directly retrieved from the Database for future information analysis by the SCADA software, Data analysis tool (for example: Microsoft Power BI, Google Data Studio) or Cloud Service.

IoTstar can be installed on a general PC platform as a Private Cloud system. It also can be installed on the Microsoft Azure, IBM Bluemix or Amazon AWS, etc. as a Public Cloud system. By using IoTstar, it is easy to build a Remote Monitoring and Management IoT Cloud system, and during the whole process of system development; no programming is required; just makes a few settings on the controller and IoTstar; the user could quickly integrate the sensor and I/O module data with the IoT Cloud system. It is an easy-to-use and easy-to-build IoT Cloud solution for the IoT and Industry 4.0 applications.

Making Data Acquisition Easy

Currently, IoTstar supports WISE-5231 series controller and PMD power meter concentrator which has IoT feature preinstalled.

IoTstar supports most new windows system, including windows 7, 8, 10, and window server to implement the private IoT cloud solution on the controller. It also enables the remote management and firmware update on the controllers via user-friendly and Web page interface.

Retrieving data log file of the sensors from the remote controllers can be easily imported the content of the data log file into the Database (MySQL or MSSQL). User can retrieve and review the data of the Sensors directly by the built-in Web page interface. By Database interface, it is easy to integrate with SCADA, Microsoft Power BI, Google Data Studio or Cloud Service to retrieve the data of the Sensors directly from the Database for future data analysis.

**Making Data Acquisition Easy**



If you have another Internet of thing requirements or have some questions, we can certainly help you to choose the best solution.  Please call our technical support team at (310) 517-9888 X102

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