Advantech’s WISE-PaaS Industrial IoT cloud platform provides edge-to-cloud software and services to help system integrators and manufacturers, enabling real IoT-powered cloud business models in various vertical markets. Leveraging Advantech’s extensive hardware portfolio, WISE-PaaS integrates diverse software services, including WebAccess, WISE-PaaS/EdgeLink, WISE-PaaS/EdgeSense, and WISE-PaaS/VideoSense. Data collected for the WISE-PaaS/EnSaaS IoT cloud platform enables partners to quickly develop SaaS and domain-specific IoT solutions.

Features of WISE-PaaS/EnSaaS IoT Cloud Platform

**Visualization - Dashboard**
- Enables intuitive analysis and prediction
- Fast data capture, analysis, and application
- WISE-PaaS/SaaS Composer, a component providing a process visualization tool with 3D rendering capabilities, constructed using HTML 5 canvas technology

**Computing Resource Management**
- Micro services: each micro service operates independently and applications can be innovated quickly
- Flexible expansion: increases capacity automatically during peak demand
- Availability: Failover mechanism can still collect data even during downtime

**Asset Performance Management**
- Create flexible asset models
- Establish asset management organization
- Event and notification rule engine configuration
- Asset performance management indicator dashboard and mobile App

**Database Services**
- Data access management
- Supports SQL, NoSQL, and time-series databases
- IoT Hub offers reliable message publish/ subscribe functions between SRPs and edge devices for PaaS tenant accounts

**AI Framework Service**
- Ready-to-use solutions or algorithms with online subscription and an easy-to-use interface
- Supports online analytic module development with Jupyter notebook
- Supports AI models training, deployment and re-training, and re-deployment automation process

**Customer Management**
- Multi-tenancy services: each tenant can choose different levels and types of database based on their usage
- Metering and billing: supports multi-tenant pricing by quantity and provides a query function to check usage
- Single sign-on management: provides a standard cross-application login mechanism to improve security and the user experience
WISE-PaaS Data Visualization

WISE-PaaS provides end-to-cloud connectivity, realizing data retrieval, analysis, and application. The data visualization tools, including WISE-PaaS/Dashboard and WISE-PaaS/SaaS Composer, help display your data more clearly. By configuring how and where different objects are displayed, businesses can optimize the monitoring of day-to-day operations, assess efficiency, and manage operations with a high level of precision, thereby improving their operations management and decision-making.

**WISE-PaaS/Dashboard**
Data Analysis and Visualization Tool

WISE-PaaS/Dashboard is commonly used for visualizing time-series data for infrastructure and application analytics. It allows access to various data sources and gives more convenient access to WISE-PaaS data. WISE-PaaS/Dashboard uses suitable graphical tools based on different data types and situations.

**WISE-PaaS/SaaS Composer**
Cloud Configuration Tool with Visible Workflow

WISE-PaaS/SaaS Composer supports customized component plotting for simple and intuitive 3D modeling applications and interaction. It updates views at millisecond rates, and, together with WISE-PaaS/Dashboard, presents critical management data in a visually intuitive display to help extract valuable data and improve operational efficiency.

**SRP Dashboard**

**iFactory**
Central Management System

1. **Focal Point: Real-Time Information**
   - Live video streaming
   - Key production index
   - Production management information

2. **Interactive Dashboard: Central Management System**
   - Factory overview
   - Machine availability
   - Line balancing rate
   - Overall availability analysis

3. **Management Scorecard: Operational KPIs**
   - Operation management
   - Employee management
   - Supply chain management
   - Quality management
WISE-PaaS/AFS AI Framework Service

WISE-PaaS/AFS provides a unified platform for AI model development, training, deployment, re-training, and re-deployment. It provides a web UI interface that allows developers to quickly build up their own AI solutions. Combined with AI algorithms, the service builds an effective inference engine with automatic deployment to edge computing platforms. WISE-PaaS/AFS offers model accuracy management, model retraining, and automated redeployment. It simultaneously controls multiple AI models in the application field; offering automated model accuracy improvement and life-cycle management services.

WISE-PaaS/APM Asset Performance Management

WISE-PaaS/APM is an equipment network connection remote maintenance service framework. WISE-PaaS/APM connects to a wide array of on-site industrial equipment controls and communication protocols. It supports the latest edge computing open standard, EdgeX Foundry, and includes built-in equipment management and workflow integration templates. Jointly with the WISE-PaaS/AFS, WISE-PaaS/APM accelerates machine-to-intelligence (M2I) application development.
Enabling AIoT Solution Co-Creation with the WISE-PaaS VIP Program

Consulting and Training Services
- 10 hours of consulting
- 2 attendees per training

Ecosystem Co-Prosperity
- Business matchmaking
- Solution co-creation
- Distribution via the WISE-PaaS Marketplace

International Marketing Network
- Media exposure
- Co-marketing
- Co-PR

WISE-PaaS/EnSaaS

WISE-PaaS Portal
- Quick and Simple Deployment
- Diverse Array of Software and Services
Realize Your Digital Transformation with AIoT and WISE-PaaS
Advantech IoT Co-Creation Partner Conference

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