WISE-PaaS
Enabling IoT Edge Intelligence with a Collaborative Ecosystem

WISE-PaaS/DeviceOn
IoT Device Operation Management

ADVANTECH
Enabling an Intelligent Planet
Industrial IoT Demand on the Rise
Billions of Connected Devices Driving AIoT Transformation

A surge in market demand for Industrial IoT products has rapidly increased the number of connected devices that are currently deployed and managed across different locations. It is essential to effectively manage, monitor, and control thousands of connected devices while ensuring uninterrupted service. Devices must work properly and securely after they have been deployed - without requiring frequent visits from service technicians. Customers require secure access to their devices in order to detect, troubleshoot, and undertake time-critical actions.

Automated Device Connection
Over-the-Air Software Updates

Remote Monitoring & Control
Over-the-Air Software Update

Embedded Boards
Embedded PCs
Embedded Computers
Advantech’s brand-new designed IoT device operations and management solution gives users a transformational plug-and-play experience. Beginning with onboarding devices, WISE-PaaS/DeviceOn’s fast and simple setup helps provide instant intelligent edge connection, data acquisition, and status visualization at the device operations center. Power on/off is also available at the tap of a button for quick and easy access. Over-the-Air software updates itself securely by sending software patch, firmware, software, and configuration updates through batch provisioning. The App is designed to ensure maximum efficiency in IoT device operations and management.
Equipment to Intelligence Solutions
Enable Equipment Intelligence and Asset Management

For equipment in the field, it is critical to quickly identify the source of any problem that occurs and take corrective action. Enabling equipment intelligence and detecting problems before a device shuts down completely is key to optimizing productivity and performance. Advantech’s equipment-to-intelligence (E2I) solution series can improve asset utilization, facilitate preventative maintenance planning, and enable a new equipment as a service (EaaS) business model.

WISE-PaaS/DeviceOn
Equipment Edge Connectivity Solution

SRP-E2i110
Establishing both wired and wireless edge-to-cloud connectivity while providing protocol conversion, edge intelligence, and equipment status management dashboard. This solution facilitates data visualization, remote monitoring, alarm notification, and asset management.

WISE-PaaS/DeviceOn
Equipment Vibration Monitoring Solution

SRP-E2i210
Facilitates real-time vibration monitoring, time–frequency vibration data analysis, and alarm management/maintenance. With its application dashboard, users can visualize vibration data and monitor equipment status to enhance maintenance efficiency. This can reduce equipment maintenance costs and provide a predictive maintenance mechanism, thus ensuring a high return on investment.

Dashboard Highlights

Reciprocating Compressor
- Frequency domain
- RMS status monitoring
- Time–frequency analysis

Screw Air Compressor
- Discharge information
- Loading status

Vibration Data Analytics
- Frequency domain
- RMS status monitoring
- Time–frequency analysis

Condition Monitoring
- Threshold monitoring
- Data monitoring and alerts
Advantech edge intelligence servers accelerate IoT implementation by providing integrated solutions that include edge computers, WISE-PaaS/DeviceOn IoT device operation management software, IoT development tools, and pre-configured cloud services. Furthermore, Advantech provides data service servers as scalable data management platforms for private cloud solutions. They are all-in-one platforms with an open standard structure and have Kubernetes built-in, platform management software, and self-health management. Our servers facilitate IoT connectivity, light edge analytics and cloud integration, thus simplifying IoT application deployment, visualization, and predictive maintenance for IoT applications.

**Dashboard and Development Tools**

**For Edge Intelligence Server**
- WISE-PaaS/DeviceOn
- Device Operation Management
  - Centralized IoT device HW & SW status management
  - Built-in 15+ real-time monitoring widgets
  - Up to 1000 device connections

**For Data Service Server**
- kubernetes
- Data & System Management
  - Kubernetes resource monitor
  - Application status monitor
  - Database I/O throughput monitor
- Self-Health Management
  - Condition monitor
  - Load balance
  - Events/alerts
Microsoft Azure Migration Services

Embrace Digital Transformation with Advantech

Azure is an ever-expanding set of cloud computing services to help your organization meet its business challenges. With Azure, your business or organization has the freedom to build, manage, and deploy applications on a massive, global network using your preferred tools and frameworks. Advantech offers Microsoft Azure Cloud Services, helping businesses connect their industrial solutions to the cloud through both custom service packages and pre-configured solution packages. Custom cloud infrastructure services are allowing customers to choose the services that best fit their needs, ensuring they only pay for what they use. Alternatively, Advantech offers pre-configured solution packages ready for immediate deployment. The IoT Central connects, monitors, and manages your IoT assets at scale, and IoT cloud solution accelerators connect and monitor your devices remotely. Improve your industrial efficiency with a connected factory and increase equipment reliability with predictive maintenance. All services will be covered by Pay As You Go in your monthly billing structure.

Service Highlights

Compute
- Access cloud compute capacity
- Virtualization and scale on demand
- Only pay for the resources you use

Database
- Database
- Intelligent, scalable, cloud database service
- The broadest SQL engine compatibility
- Up to a 212% return on investment

Storage
- Range of solutions for your needs
- Scalability you will not outgrow
- Flexible as your needs change

IoT Service
- IoT Service
- Security from the endpoint to cloud.
- Open for any devices, OS, and data services
- Scalability enable millions of devices and terabytes of data
Microsoft Embedded License and Cloud Service Global Distributor

As a strategic industrial partner of Microsoft, Advantech seamlessly integrates Microsoft's direct support to provide our partners with headache-free services. Our industrial partners will get know-your-need software and cloud solutions from Advantech to meet their expectations. Let Advantech know your requirements, we’ll always find a way to work out a solution for you.

Advantech Azure Services

Microsoft Azure Cloud Offerings

Advantech Azure Solution
- Perfect integration
- Azure and Advantech hardware
- Industrial domain know-how solutions

Microsoft Azure
- Computing and storage
- Internet of things
- AI + machine learning

Office 365
- Full access, anytime and anywhere
- Pay-as-you-go flexibility for your business
- Automatic updates for no additional charge
WISE-PaaS/Security powered by McAfee™ Acronis

Comprehensive Threat Protection and Backup Recovery

McAfee™ embedded solutions provide superior and intelligent security functions, such as whitelisting and blacklisting, for protecting IoT devices and data from zero-day attacks, monitoring/tracking system changes, and guarding entire systems with McAfee Global Threat Intelligence. WISE-PaaS/Security, empowered by McAfee™, provides a centralized IoT security management console on Azure for deploying security policies that ensure data and device protection. This IoT platform can be configured with McAfee™ function modules to satisfy diverse vertical applications and scenarios. In addition to data protection, the ability to restore systems to their factory settings on site reduces time and financial costs for both system integrators and end users. Leveraging Acronis’ award-winning technologies, Acronis OEM solutions are specifically designed to satisfy the needs of OEMs.

Product Offerings

**Acronis**

**True Image 2016 Personal**

- 31WPSALO16
- 1 WISE Point (Perpetual)

**Application Control with ePO**

- 31WPSMAP01
- 3 WISE Points (Perpetual)

**Embedded Control**

- 31WPSMEC01
- 6 WISE Points (Perpetual)

**Integrity Control**

- 31WPSMIC01
- 15 WISE Points (Perpetual)
WISE-PaaS Marketplace
Discovering and Shopping for Your Own IoT Deployments

The WISE-PaaS Marketplace is an online software store that features Advantech’s exclusive software services, diverse IoT cloud services, IoT security services, WISE-PaaS IoT software services, and solution packages pre-packaged into Advantech Edge Intelligence Servers (EIS). The WISE-PaaS Marketplace also integrates IoT partners’ cloud and software solutions to accelerate the development of tools for upgrading existing systems to the cloud. Customers can subscribe to WISE-PaaS Marketplace services using WISE-Points provided with WISE-PaaS VIP membership packages to obtain cloud-based software solutions that facilitate innovation for the IoT.

Service Highlights

- **Solution Incubation**: Diverse WISE-PaaS and WebAccess software and services
- **Pre-Configured Packages**: Integrated cloud, security, and WISE-PaaS software packages that satisfy your needs
- **Authorized Distribution**: Microsoft Azure, Arm Pelion Cloud, McAfee™ and Acronis service sources
- **Third-Party PaaS Services**: Exclusive domain-focused applications for various vertical markets
Advantech WISE-PaaS Ecosystem
Buy, Deploy, and Customize Your Industrial Software Needs

Advantech’s WISE-PaaS ecosystem features a flexible and expandable architecture that facilitates the seamless integration of diverse cloud solutions and solution-ready packages (SRP) offered at the WISE-PaaS Marketplace. Customers who join the WISE-PaaS Alliance, Advantech’s IoT partnership program for resolving IoT application challenges, can access the WISE-PaaS Marketplace and select software packages via WISE-Point. Customers can choose from a variety of effective solutions, purchase a standard suite for creating unique solutions, or combine standard and purpose-built packages to customize an IoT solution according to their specific requirements and usage conditions. With WISE-PaaS Marketplace, Advantech provides customers with the tools for easily upgrading from existing systems to a cloud-based infrastructure.

WISE-PaaS 4.0 Architecture with Microservices & I.APP

**Domain SRP**
- Energy & Environment
- Machine to Intelligence
- Industry 4.0
- Smart City
- iHealthcare
- iRetail
- iLogistics

**WISE-PaaS/DeviceOn Software**

**WISE-Agent**
- Open and standard framework
- Default plugin offering for standard protocols
- Software SDK for legacy support

**WISE-PaaS/DeviceOn**
- Remote IoT devices operation management
- Automated bringing IoT devices online and control
- OTA software/firmware update at a scale

**WISE-PaaS/OTA**
- Centralized remote application and firmware updates
- Download and deploy scheduling for planned upgrades
- Support rollbacks

**WISE-PaaS/Security**
- Centralized security management
- Flexible security modules
- Threat prevention on potential malware in real-time

**WISE-PaaS Application and Cloud Software**

**WebAccess/SCADA**
- Web-based configuration and free management for web clients
- Cross-browser dashboard with 40 built-in widgets
- Supports ample protocols and drivers

**WebAccess/HMI**
- Programmable logic controller (PLC) driver support
- Easily integrate protocols
- Friendly development interface

**WISE-PaaS/VideoService**
- Supports standard ONVIF IP cameras
- Provides Dash, HLS and RTMP streaming protocol
- Offers RESTful APIs for web/mobile application integration

**WISE-PaaS/EnSaaS**
- Connect, monitor, and manage millions of IoT assets
- Managed SQL, NoSQL, and time-series databases
- Visualization dashboard for deriving actionable insights
WISE-PaaS VIP Alliance

One Alliance, One Network, Limitless Opportunities

Co-create IoT domain-specific solutions and enjoy business growth through Advantech networking and marketing resources. Advantech has launched the WISE-PaaS Alliance as an IoT partner program designed to connect partners, cultivate joint vertical solutions, and encourage strategic co-marketing. Being a member of the WISE-PaaS Alliance connects partners to diverse IoT resources and provides access to various vertical IoT markets.

**Sell to Grow**

- Publish I.APP on the Marketplace
- Gain international promotion and orders

**Speed to Market**

- Get the best discount for 150+ IoT Solutions
- Instant purchase with one click
- Business consultation and technical training

**Alliance Network**

- Attend Advantech IoT Partner Conferences
- Business networking through 1-on-1 meetings
- Co-marketing and case studies

**WISE-PaaS VIP Package**

<table>
<thead>
<tr>
<th>Package</th>
<th>Pricing</th>
<th>EIoT P/N</th>
<th>Certified Training &amp; Consulting Service</th>
<th>Business Network &amp; Co-Marketing</th>
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| Premier | **USD 40,000**  
4,000 WISE Points +1,000 FREE Points | 9806WSPA1A | Training for 5 engineers  
10-hour consultation | ✅ |
| VIP     | **USD 20,000**  
2,000 WISE Points | 9806WSPA0A | Training for 2 engineers  
5-hour consultation | ✅ |
| Regular | **USD 1,000**  
100 WISE-Points | 9806WSPAP1 | N/A | N/A |
Power Up IoT Devices with 24/7 Operation Management

Regional Service & Customization Centers

China
Kunshan 86-512-5777-5666
Taiwan
Taipei 886-2-2792-7818
Netherlands
Eindhoven 31-40-287-7000
Poland
Warsaw 00800-2426-8080
USA
Milpitas, CA 1-408-519-3898

Worldwide Offices

Greater China
China
Toll Free 800-810-0345
Beijing 86-10-6298-4346
Shanghai 86-21-3632-1616
Shenzhen 86-755-8212-4222
Chengdu 86-28-8545-0198
Hong Kong 852-2720-5118
Taiwan
Toll Free 0800-777-111
Taipei & IoT Campus 886-2-2792-7818
Taichung 886-4-2372-5058
Kaohsiung 886-7-392-3600

Middle East and Africa
Israel 072-2410527

Asia
Japan
Toll Free 0800-500-1055
Tokyo 81-3-6802-1021
Osaka 81-6-6267-1887
Nagoya 81-050-500-1055
Korea
Toll Free 080-363-9494-5
Seoul 82-2-3660-9255
Singapore
Singapore 65-6442-1000
Malaysia
Kuala Lumpur 60-3-7725-4188
Penang 60-1-557-9188
Thailand
Bangkok 66-02-2488306-9
Vietnam
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Toll Free 1300-308-531
Melbourne 61-3-9797-0100
India
Bangalore 91-80-2545-0206
Pune 91-94-2260-2349

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Netherlands
Eindhoven 31-40-267-7000
Breda 31-76-523-3100
Germany
Toll Free 0800-2426-8080/81
Munich 49-99-12599-0
Dusseldorf 49-2103-97-855-0
France
Paris 33-1-4119-4666
Italy
Milan 39-02-9544-961
UK
Newcastle 44-0-191-262-4844
London 44-0-797-493-1433
Spain
Madrid 349-91-668-86-76
Sweden
Stockholm 46-0-864-60-500
Poland
Warsaw 48-22-31-51-100

Russia
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St. Petersburg 7-912-332-5727
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Galway 353-91-792444

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Irving 1-915-420-2500
Ottawa 1-815-433-5100
Brazil
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São Paulo 55-11-5952-5367
Mexico
Toll Free 1-800-467-2415
Mexico City 52-55-6275-2727

www.advantech.com

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