

WebAccess/DMP

Remote device provisioning,
monitoring and management platform.

- ✓ Zero Touch Deployment
- ✓ Digital Twin Model
- ✓ Customizable and Versatile Dashboards
- ✓ Configuration Profile Management
- ✓ Efficient Data Handling
- ✓ Monitoring Customization
- ✓ Geographical Mapping
- ✓ PKI for Mutual Authorization



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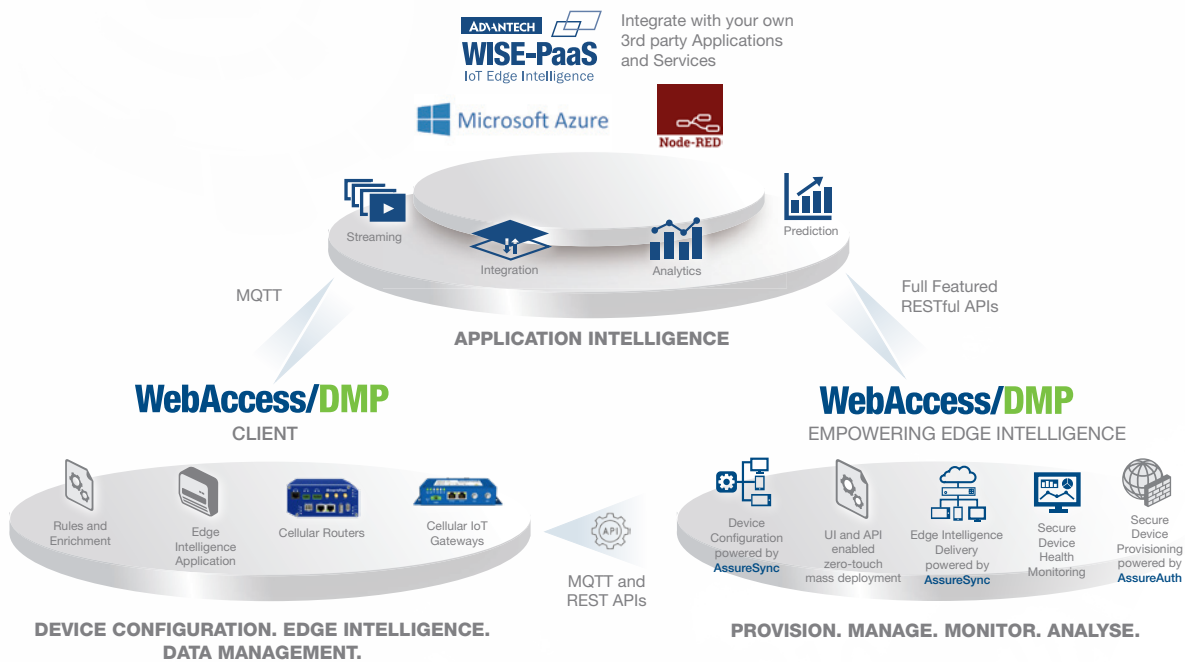
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WebAccess/DMP



WebAccess/DMP is an advanced Enterprise-Grade platform solution for provisioning, monitoring, managing and configuring Advantech's routers and IoT gateways. It provides a zero-touch enablement platform for each remote device.

With **WebAccess/DMP**, secure zero-touch pre-provisioning and pre-configuration is simple, regardless of how large your deployment is: from one device to thousands. The platform supports full multi-tenancy, with the possibility of permissions-enabled power-user oversight across tenancies.



WebAccess/DMP - Solution Facts & Benefits

General

As an established specialist in IoT and M2M solutions, with proven pedigree and capability, Advantech has leveraged a wealth of contextual and environmental knowledge to bring you WebAccess/DMP.

The entire software architecture has been re-imagined and re-built with Security, Performance at Scale, Reliability, Usability, Extensibility and Interoperability at the heart of every decision.

Provisioning

AssureAuth PKI is used during the device provisioning sequence. Both device and server must mutually authenticate, using Advantech's Certificate Authority as the root of trust. Once successfully provisioned via a successful bootstrapping sequence, the devices will automatically connect with the platform.

Device Management

Device management is taken to the next level, with AssureSync Configuration Management. Using the concept of a Digital Twin Device Model, the platform is capable of managing multiple device states, for every supported device type and firmware version. The 'desired state' is a state enabled by WebAccess/DMP, on a setting-by-setting basis: when a 'desired state' is enabled, then the AssureSync engine will push the desired configuration to the desired device: and will ensure that the configuration is continuously enforced, regardless of whether that configuration setting is manipulated (maliciously or otherwise) locally at the device itself. AssureSync also works on Firmware Version and on Edge Intelligence App delivery (including version and configuration settings).

Device Monitoring

Monitoring device health is an important consideration for any management and monitoring platform. WebAccess/DMP provides secure device health monitoring, without requiring any configuration. Of course, whether this data is reported at all may be tuned, and turned off entirely, if so required. For every device, the health data is presented in a scalable time-series visualisation: thus empowering the in-depth analysis in the simplest possible way.

Interoperability and Extensibility

Technology changes fast: and in the world of IoT and ever growing complexity and scale, the necessity to interoperate with existing solutions is crucial. WebAccess/DMP is built for interoperability, and for extensibility: the solution comes complete with a secure and full-featured REST based API. Empower your world: plug in and build out.

PRODUCT FEATURES

Zero Touch Deployment

Facilitating remote configuration deployment without the need for physical interaction. Users can pre-configure settings, waiting for the router to come online. Upon connectivity, WADMP automatically deploys the specified configuration and ensures its maintenance.

Digital Twin Model

Every device has its virtual counterpart within the application. This enables continuous monitoring and management of real and virtual devices configured identically.

Customizable and Versatile Dashboard

Users have the freedom to design dashboards to align with their specific requirements. The dashboard's information scope and visual appearance are highly flexible, offering nearly limitless combinations.

Multi-Dashboard

Users can create multiple dashboards, each with its unique design. The flexibility extends to copying, editing, and arranging these dashboards as per the user's preference.

Auditing

All user and device activities are meticulously recorded and easily accessible for review. These include various categories of actions such as Alerts, API usage, Bootstrap, Billing, Configuration Profiles, Company operations, Device management, Fields, Management Server activities, User actions, and Views.

Alerts

Users can employ any available monitoring or configuration parameter as a trigger for alerts. These alerts can be set up for individual devices or all devices associated with a company. Parameters like the frequency of rule checks, critical repetition, device count, and cooldown periods can be customized. The alerts can be directed through emails or multiple endpoints.

Multi-Tenancy

Hierarchical relationships allow parent companies to have child companies under their umbrella. This structure can extend to multiple levels without limitations.

Fine-Grained Permission Control

Users can belong to none, one, or multiple companies, each with distinct permissions. These permissions vary depending on whether the user is part of a child or parent company.

Configuration Profile Management

Creation and assignment of configuration profiles to individual or multiple devices are simplified. These profiles encompass details like Firmware (FW) versions, FW configurations, RouterApp lists, and associated configurations. Compare configuration profiles to identify differences.

Monitoring Customization

Users can also selectively choose parameters for monitoring based on their preferences, helping to save data by only collecting data for parameters that are of interest to the user.

Geographical Mapping

For routers equipped with GPS modules, the application offers the capability to display their geographical positions on a map within the dashboard. User can easily identify a location of a router in case of need.

Ping Tools

Monitor the health of your critical systems with unlimited ping capabilities, displaying real-time status and latency on a clear, intuitive dashboard. Catch network issues before they impact you, ensuring seamless uptime and optimal performance.

PKI for Mutual Authorization

Our application employs PKI (Public Key Infrastructure) for mutual authorization between routers and the application. This robust security measure ensures the integrity and security of communication between devices and the system.

Two-Factor Authentication (2FA)

For added security, users can implement Two-Factor Authentication (2FA) to enhance the authentication process and protect user accounts.

Efficient Data Handling

The application facilitates the export of router parameter tables to CSV files, enabling adjustments and subsequent importation back into the system.

SW OPTIONS

WebAccess/DMP is available as cloud hosted **Solution-as-a-Service**, available 24/7, with **no setup cost or time investment** required. Simply create an account for yourself at www.wadmp.com, and you're ready to go: you can add up to **5 Cellular Router or IoT Gateway devices free of charge**, and with no expectations or constraints. There is **no time-limit** on your user-account, and **no limit to the number of users** you can add to your free Tenancy. Advantech doesn't even require you to enter a payment-method: getting started with management and monitoring of your first 5 devices is **100% risk-free** for you.

WebAccess/DMP is a hosted and managed solution: software updates, bug fixes, security updates and feature additions will be continuous and ongoing.

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Toll Free 1-800-467-2415
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WebAccess/DMP

COMPATIBLE WITH v2i, v3, v4 AND v4i FAMILY OF THE ADVANTECH CELLULAR ROUTERS & GATEWAYS.



v2i
ICR-2xxx



v3
ICR-3xxx, SmartFlex, SmartStart



v4
ICR-44xx



v4i
ICR-4xxx

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