

WebAccess / DMP



Features

- Cross-browser, cross-platform based on HTML5
- Google Maps and GPS location integration
- Emu-Edition for on-premises installations
- Flexible delivery options
- Multi-Tenancy options
- Remote device configuration
- Remote device status monitoring
- "No-Touch" provisioning for mass deployments
- RESTful APIs
- Remote application management and delivery

Introduction

Advantech WebAccess/DMP is a software package that provides remote device management and provisioning for Advantech WAN/WWAN Routers, IoT Gateways and Wizzard wireless sensor nodes (WSNs).

The Graphical User Interface (GUI) is provided via a HTML5 front-end, which means that it is entirely browser based: all major browsers are supported.

There is also a fully functional device-management API which enables discovery of, configuration of, and status from, the remote devices.

The Emu-Edition enables a fully on-premises deployment: this edition enables multi-tenancy for device provisioning.

The Configuration Profiles feature enables no-touch configuration and mass deployment of field devices.

Feature Details

Cross-browser, cross-platform based on HTML5

WebAccess/DMP is a web based HTML5 Device Management and Provisioning platform. Based on HTML5, users can use different web browsers such as: chrome, Internet Explorer, Firefox, Safari etc to access WebAccess/DMP without installing any other packages. Users can easily and conveniently access WebAccess/DMP from any device such as a PC or mobile device.

Google Maps and GPS location tracking integration

Users can define the longitude and latitude of each device. If the device is GPS-enabled, it will automatically report it's own longitude and latitude to WebAccess/DMP. WebAccess/DMP can then locate the position on the Google map. The location and connectivity are clearly presented on the map in the dashboard.

Emu Edition: On-Premises

WebAccess/DMP Can be installed on-premises on end-user server equipment, or hosted on an end-user's IaaS platform. This enables (a) fully secured on-premises installations for critical projects; and (b) the option to provide Device Management and Provisioning "as a service" to third party end users of the Devices.

Flexible delivery options

There are 4 off-the-shelf delivery options, to suit project needs and capital budgets. There is a growth-migration plan that enables projects to "start small" with low cost, and to grow over time.

Multi-Tenancy options

The Emu Edition enables multi-tenancy. This means, a single installation of the software enables multiple Tenants to have their own isolated environments for them to provision and manage their remote devices. Each Tenant may have as many Tenant-Admin and Tenant-User accounts as they need.

Remote device configuration

WebAccess/DMP supports many of Advantech's WAN/WWAN Routers (e.g. SmartStart, SmartFlex, SmartMotion, ICR-3, LR77, and others), IoT Gateways (SmartSwarm), and Wizzard wireless sensor nodes. For each of the supported device types, it is possible to configure every configuration endpoint on that device. There are many thousands of possible configuration endpoints.

Remote device status monitoring

WebAccess/DMP enables individual device status monitoring. There are simple device statistics monitored by default (e.g. online/offline status). For each device, it is possible to get a full set of live status metrics on request, in real-time.

Remote application management and delivery

The WAN/WWAN routers allow capability-extensions, called "user modules". The IoT Gateways allow capability-extensions, called "apps". Both user-modules and apps are supported on WebAccess/DMP: These applications may be deployed and configured, to one or many remote devices.

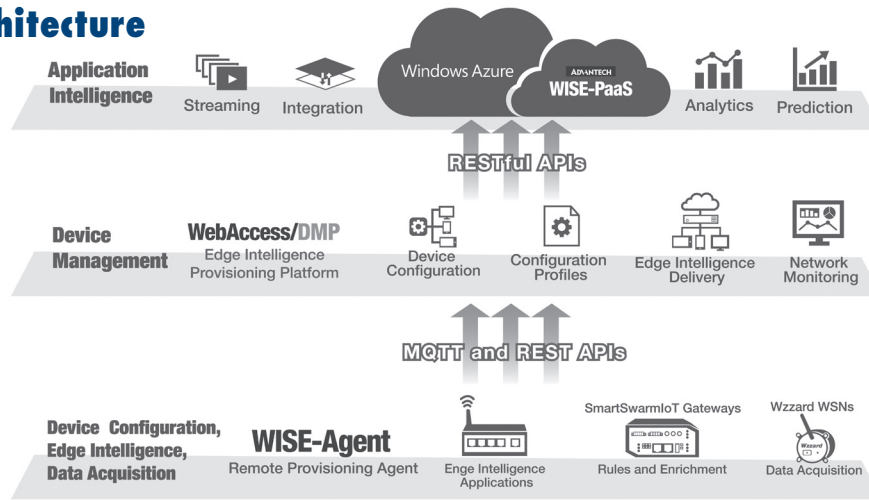
No-touch provisioning

The Configuration Profiles Feature enables "no touch" provisioning of large quantities of remote devices. This feature enables live, in-field, mass-deployments, where the deployed remote devices will receive "push configuration" (provisioning) from the WebAccess/DMP software.

RESTful APIs

There is a feature-rich REST API that enables scriptable interaction with the remote devices. This enables device-provisioning, and/or location and status monitoring, of the remote assets, to be fully scripted and automated. The API also enables integration with 3rd party software and services, or batch delivery of specific configuration items.

Service Architecture



Minimum System Requirements

There are 4 delivery options, and each one has specific requirements. See the table below, for details.

BB-SWH-OP4H	BB-SWH-OP1T	BB-SWH-OP5T	BB-SWH-OPMT
<p>Web Server (MS IIS Server 7 and above) (running on a stand-alone VM or native machine) Processor with at least 4 cores 8GB RAM Microsoft Windows Server 2012 Standard edition 64-bit (or above) Microsoft dot.Net Framework 4.5 (or above) 80GB HDD</p> <p>Database Server (MS SQL Server or SQL Server Express*) (running on a stand-alone VM or native machine) Processor with at least 4 cores 8GB RAM Microsoft Windows Server 2012 Standard edition 64-bit (or above) Microsoft SQL Server 2014 Standard Edition (or newer) 150GB HDD</p> <p>*there are some limitations with SQL Server Express (e.g. update statistics, update indexes, creating backups)</p>	<p>Web Server (MS IIS Server 7 and above) (running on a stand-alone VM or native machine) Processor with at least 4 cores 16GB RAM Microsoft Windows Server 2012 Standard edition 64-bit (or above) Microsoft dot.Net Framework 4.5 (or above) 80GB HDD</p> <p>Database Server (MS SQL Server) (running on a stand-alone VM or native machine) Processor with at least 4 cores 16GB RAM Microsoft Windows Server 2012 Standard edition 64-bit (or above) Microsoft SQL Server 2014 Standard Edition (or newer) 150GB HDD</p>	<p>Web Server (MS IIS Server 7 and above) (running on a stand-alone VM or native machine) Processor with at least 4 cores 16GB RAM Microsoft Windows Server 2012 Standard edition 64-bit (or above) Microsoft dot.Net Framework 4.5 (or above) 100GB HDD</p> <p>Database Server (MS SQL Server) (running on a stand-alone VM or native machine) Processor with at least 4 cores 16GB RAM Microsoft Windows Server 2012 Standard edition 64-bit (or above) Microsoft SQL Server 2014 Standard Edition (or newer) 250GB HDD</p> <p>active/passive clustering configuration on SQL Server is recommended</p>	<p>** At least 1 Web Server (MS IIS Server 7 and above) (running on a stand-alone VM or native machine) Processor with at least 4 cores 16GB RAM Microsoft Windows Server 2012 Standard edition 64-bit (or above) Microsoft dot.Net Framework 4.5 (or above) 500GB HDD</p> <p>at least 1 Database Server (MS SQL Server) (running on a stand-alone VM or native machine) Processor with at least 4 cores 16GB RAM Microsoft Windows Server 2012 Standard edition 64-bit (or above) Microsoft SQL Server 2014 Standard Edition (or newer) 500GB HDD</p> <p>at least one load balancer active/passive clustering configuration on SQL Server</p> <p>**site survey will be required</p>

Client Side Browser	Chrome	Version 55 or later version
	Firefox	Version 55 or later version
	Internet Explorer	IE11 or later version
	Safari	Version 11 or later version
Display	Display Resolution	1024 x 768 or higher (recommend)

Ordering Information

Order Code	Device Total	Tenants	Devices or Profile
BB-SWH-OP4H	400	1	200
BB-SWH-OP1T	1000	3	200
BB-SWH-OP5T	5000	15	500
BB-SWH-OPMT	unlimited	Unlimited	500