

AMS Machine Works Cloud Hosted Solution

- Easy provisioning without the need to purchase and install on-premises server or software
- Worry-free upgrades and software updates backed by 24/7 support
- Peace of mind with industry standard security, data back-up and disaster recovery technologies and processes
- Optimize collaboration with secure access to your machinery health data anytime and anywhere



Emerson's partnership with Microsoft Azure allows for a modern, cost-effective software delivery of the AMS Machine Works Software.

Overview

Emerson has partnered with Microsoft to offer a software hosting service for AMS Machine Works in the Azure cloud platform. This eliminates the need for customers to deploy and manage on-premises installations of the software along with costly infrastructure investment.

The scalable subscription model allows you to transfer the burden of managing your servers, software, system security, updates, and requisite IT support to Emerson, while ensuring that your AMS Machine Works application is available when needed.

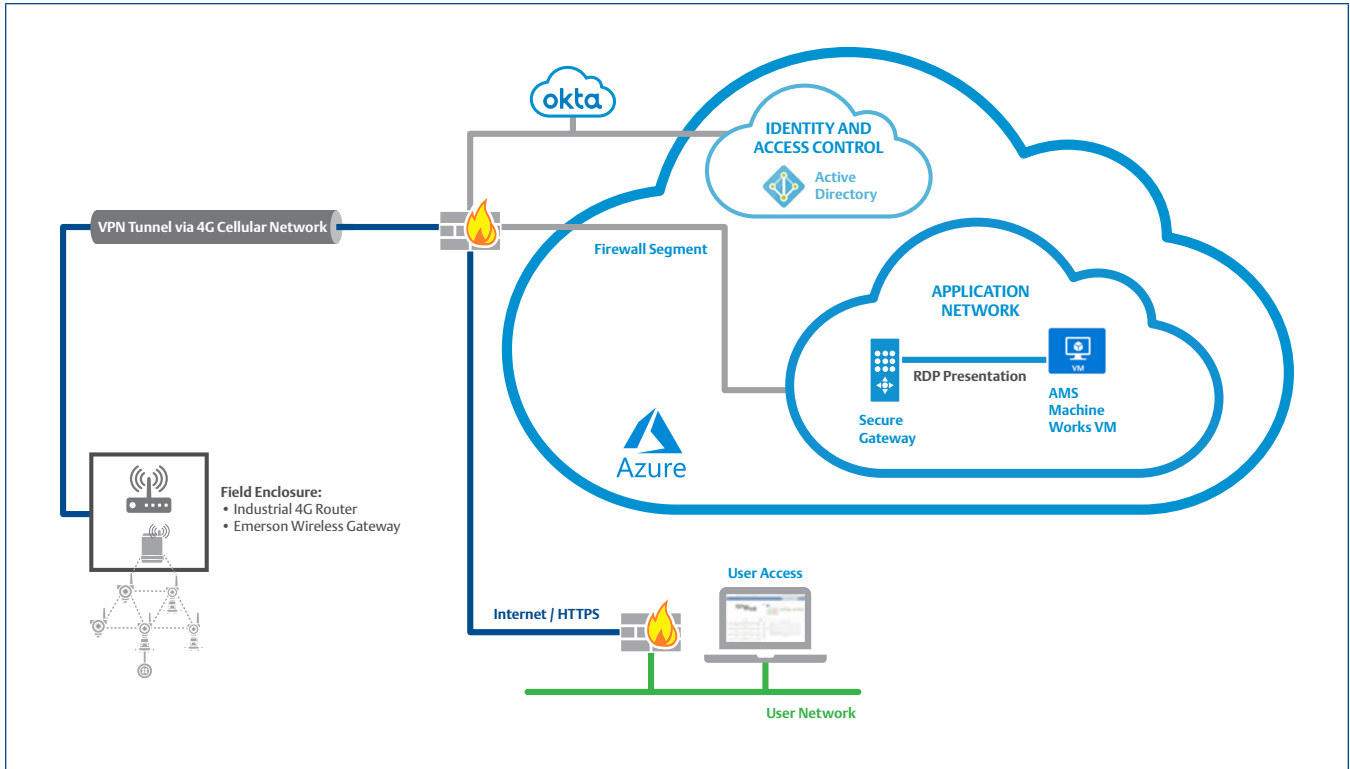
Having your system on the cloud also means that authorized staff can securely access information and data anytime and anywhere. This translates into enhanced mobility, flexibility and collaboration within your teams, with your corporate analyst pool, or even with Emerson experts.

Capabilities

AMS Machine Works may be deployed on Microsoft Azure with easily scalable architectures of single or multiple VMs.

All functionalities available for AMS 9420 Wireless Vibration Transmitter or AMS Wireless Vibration Monitor in an on-premises installation of the software are also available in the cloud hosted AMS Machine Works platform, including:

- AMS Machine Works Dashboard
- Vibration Analyzer
- Machine Journal
- Machine Configuration
- Device Configuration
- Peakue Plus Technology for AMS Wireless Vibration Monitor



The Cloud Hosted Solution provides authorized personnel secure remote access to AMS Machine Works via encrypted website connection (HTTPS) over the internet.

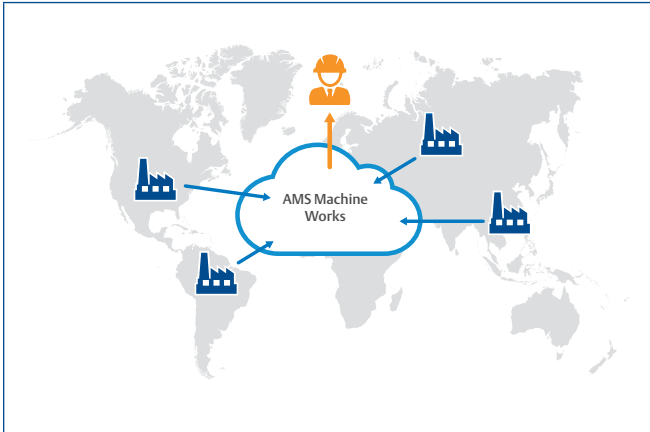
Secure System Architecture

Emerson’s approach to security is consistent with industry defense-in-depth standards, including the following architecture and security features:

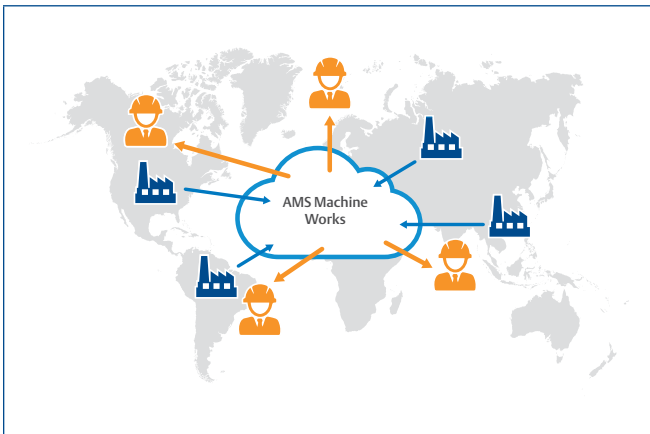
- **Data Isolation** – Dedicated servers and data storage are assigned to each customer via an exclusive cloud virtual network (VNet).
- **Network Security** – Independent logical networks enable isolation within the subscription and control of any traffic traversing the subscription boundary. The partnership with Microsoft also allows leverage of their world class datacenter and hosting security services.
- **Identity and Access Control** – A combination of Okta and Active Directory accounts and Resource Groups control access to the application. Least privilege principles are employed with only pre-authorized customer personnel being granted access.
- **Patch Management** – Industry standard patch management processes consistent with ISO/IEC 27001 and ISO/IEC 62443 are followed.
- **Anti-Malware** – Commercial grade anti-malware software and update processes keep the most current definitions and versions available.
- **Security Logging and Alerts** – State of the art security tools are used to log and alert on our environments. A 24/7 Computer Incident and Response Team (CIRT) will receive alerts and take appropriate action based on any perceived threats.
- **Network Traffic** – all network traffic is encrypted in transit with either the use of VPN, PPTP, SSL or other network encryption technology.

Use Cases

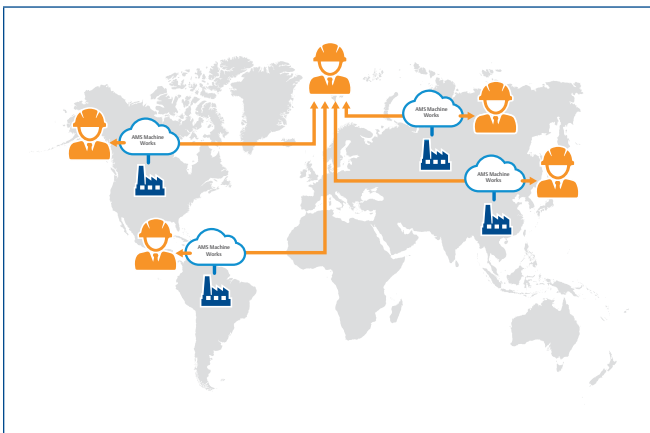
AMS Machine Works Cloud Hosted Solution allows flexible models to meet various analysis and collaboration requirements.



Single System Shared Across Multiple Sites with Corporate Analysis.



Single System Shared Across Multiple Sites with Shared Analysis.



Dedicated System Per Site with Corporate and Site Analysis.

Specifications

AMS Wireless Vibration Monitor and AMS 9420 Wireless Vibration Transmitters are easily integrated into AMS Machine Works through the Emerson Smart Wireless Gateway. Flexible deployment is enabled by the use of Industrial 4G routers which sits in the same field enclosure as the wireless gateway and establishes a secure VPN connection to the Emerson cloud.

The AMS Machine Works Cloud Hosted Solution provides users with all of the necessary tools and functionality to diagnose, analyze and monitor rotating assets:

- Complete vibration data including overall levels, energy bands, high resolution spectra, and waveforms
- Emerson's unique PeakVue technology that filters out traditional vibration signals to focus exclusively on impacting
- New PeakVue Plus technology for the Wireless Vibration Monitor which automates analysis and presents the information in a color-coded graphic

The system can be accessed in any operating system and/or device with internet access and an HTML5-compliant Web Browser, including:

- Edge
- Chrome

For specifications and capabilities of the software, follow this link to **AMS Machine Works**, or go to emerson.com and search by product name.

Support

AMS Machine Works cloud hosting subscriptions are covered by Emerson Guardian Support. This ensures technical support availability on a 24x7x365 basis provided by Emerson's Global Service Center (GSC).

Highly skilled engineers and application specialists will provide you with hands-on, consistent expert technical consultation with remote system diagnosis capability. All incidents will be handled by GSC or coordinated with Emerson's Cloud Operations support teams as needed.

Asset Condition Monitoring Services

Emerson's team of machinery monitoring experts can supplement plant programs with **Asset Condition Monitoring Services**. Specialists are available to monitor and analyze data from Emerson's route-based vibration analyzers, wireless vibration devices, and online systems. They follow up with easy-to-read, actionable periodic reports for your maintenance department.

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