



For immediate release

Contact:

Denise Clarke

512-899-0004

Denise.Clarke@fleishman.com

EMERSON LAUNCHES NEW PLANTWEB™ DIGITAL ECOSYSTEM

***Pervasive Sensing™, Secure First Mile™, Connected Services and New Software
Bring the Most Comprehensive Industrial Internet of Things Portfolio to Industry***

AUSTIN, TEXAS (October 24, 2106) -- Leveraging decades of digital automation expertise, Emerson (NYSE: EMR) today introduces the expanded [Plantweb digital ecosystem](#), a scalable portfolio of standards-based hardware, software, intelligent devices and services for securely implementing the [Industrial Internet of Things \(IoT\)](#) with measurable business performance improvement.

Plantweb becomes the most comprehensive and integrated Industrial IoT portfolio in the industry. In addition to highly secure process control, safety and asset management systems, Plantweb now supports enterprise-wide operations with an expanded portfolio of Pervasive Sensing field instruments, the Secure First Mile family of software, gateways, security devices and services, the Plantweb Insight™ and Plantweb Advisor™ scalable suite of software applications, the AMS ARES™ Platform, and Microsoft-enabled, cloud-based remote expert Connected Services.

First introduced as the industry's most advanced process control and safety network, Plantweb now harnesses the power of Industrial IoT to expand digital intelligence to the entire manufacturing enterprise, while also providing an architecture for on-premise applications. Plantweb provides a comprehensive framework to help manufacturers achieve Top Quartile performance in the areas of safety, reliability, production and energy. Top Quartile is defined as achieving operations and capital performance in the top 25 percent of peer companies.

"In 1997, Emerson revolutionized the automation landscape with Plantweb, the first field-based digital plant architecture," said Peter Zornio, chief strategic officer, Emerson Automation

Solutions. “Now, we are doing it again by harnessing the power of Industrial IoT to give customers the technology foundation for Operational Certainty.”

Emerson’s Plantweb digital ecosystem includes several new products, services and partner-enabled solutions:

- **Pervasive Sensing:** Expanding the industry’s largest portfolio of measurement and analytical technologies, Emerson is introducing a non-intrusive temperature sensor, as well as new sensing technologies in the area of corrosion detection, medium voltage electrical protection, and hazardous gas leak detection, among others.
- **Secure First Mile:** Getting the right data to the right people can improve operational performance, but with increased connectivity comes increased risk – especially during the “first mile” when data is moved from the plant floor onto the internet to power IT and cloud-based applications. Emerson’s Secure First Mile is a set of architectural approaches and designs that allow customers to selectively connect highly secure data from protected control and operation systems (OT) to operational performance applications in the cloud environment (IT). The portfolio, which includes a family of security services and robust, secure and flexible servers, gateways, and data diodes, ensures experts gain immediate access to the information they need, whether on premise, in a private company cloud network or to a third-party service provider.
- **Plantweb Insight Software:** A comprehensive, lightweight portfolio of IT-friendly applications with analytics for monitoring asset health. Plantweb Insight applications can run independently of existing business systems and distributed control systems (DCS) and provide a simple yet powerful entry point to Industrial IoT. These applications are perfect for proving an Industrial IoT strategy and gaining quantifiable business impact. Plantweb Insight applications can be deployed as a single asset class and scale to a wide range of assets, each with low entry cost and simplified set up. Virtual machine-based deployment makes Plantweb Insight a low IT requirement application.
- **Plantweb Advisor Software:** A robust suite of integrated analytical expert applications for asset health, performance modeling and facility-wide energy optimization. Health Advisor, Performance Advisor and Energy Advisor applications are scalable to thousands of assets across multiple facilities for enterprise-wide equipment and energy analytics. Plantweb Advisor applications can be run on premise, in a private company cloud network or through a third-party cloud services

arrangement. The widely adopted OSIsoft PI System's highly scalable open data infrastructure is used as a platform for these applications. Plantweb Advisor suite applications are an easy migration and extension of investment in the Plantweb Insight applications when users seek a more advanced, integrated analytical environment.

- **AMS ARES Platform:** An easy-to-deploy software asset management platform that aggregates the health of assets from multiple business systems, and pushes this data to relevant plant personnel depending on their roles and responsibility, either on desktop or mobile device.
- **Always Mobile:** Enabling the mobile professional access to role-based tools, analytics and dashboards anywhere, anytime, Emerson extends the reach of Plantweb by adding mobility to the AMS and DeltaV™ process automation platforms. Experts can now have secure, mobile access to the information needed to perform their jobs, regardless of where they are. The DeltaV Mobile application allows users to securely and remotely monitor their process and receive notifications on user-selected process alarms. The AMS Trex™ Device Communicator provides maintenance technicians with a consumer-quality user experience in a rugged tool built to withstand harsh industrial environments in order to isolate and repair problems without interrupting production. AMS Asset View's persona-based alert system ensures that reliability personnel receive the important and relevant alerts needed to ensure asset health critical to production.
- **Connected Services:** An Industrial IoT-enabled cloud services offering for real-time monitoring of important assets' health, energy consumption and other operational applications. Emerson experts constantly monitor and report on asset and operational performance, prioritized repair and asset trending. The service is highly scalable, leverages existing technology investments and utilizes advanced security capabilities of Emerson and Microsoft.
- **Microsoft Azure and IoT Cloud:** Emerson has standardized on the cloud-based Microsoft Azure IoT Suite to enable Connected Services, expanding the Plantweb digital ecosystem to provide a secure, flexible platform for private cloud networks and third-party cloud service relationships.

According to [research](#) conducted by *Industry Week*, only five percent of industrial manufacturers have a comprehensive Industrial IoT strategy, while more than 50 percent see improved business performance as a reason to invest in Industrial IoT technologies.

“We have heard from customers and industry analysts alike that there is a paradox creating gridlock for customers today,” continued Zornio. “Market volatility is driving a cautious, ‘grind it out’ mentality, yet company operating performance goals demand new, transformational thinking and action. Technology is offering a vast set of new options, yet customers are left wondering how and where to begin this digital transformation.”

Emerson’s recently announced Operational Certainty program provides a clear business case for Industrial IoT investment, with an emphasis on targeting specific business challenges and achieving measurable success with limited effort or investments. As business impact is achieved, customers can then scale their adoption based on project return on investment.

“There is a lot of talk about the promise of Industrial IoT,” said Zornio. “Emerson is delivering that promise today with a compelling, flexible business case in Operational Certainty and the most robust, scalable technology and service platform with the Plantweb digital ecosystem. Emerson is putting the ROI in IoT.”

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About Emerson

Emerson (NYSE: EMR), headquartered in St. Louis, Missouri (USA), is a global technology and engineering company providing innovative solutions for customers in industrial, commercial, and residential markets. Our Emerson Automation Solutions business helps process, hybrid, and discrete manufacturers maximize production, protect personnel and the environment while optimizing their energy and operating costs. Our Emerson Commercial and Residential Solutions business helps ensure human comfort and health, protect food quality and safety, advance energy efficiency, and create sustainable infrastructure. For more information visit [Emerson.com](https://www.emerson.com).