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Jacksonville Jaguars and Siemens partner to bring the Internet of Things to the Gridiron

- **Siemens MindSphere, the company's open operating system for the IoT, will provide field managers an application with real-time data to ensure ideal turf conditions**
- **The IoT platform will eventually connect additional Siemens technology installed throughout the venue including power systems, HVAC and lighting**

Today at Spotlight on Innovation, the company's flagship U.S. innovation and technology conference, Siemens announced a new technology partnership with the Jacksonville Jaguars that brings the power of the Internet of Things (IoT) to TIAA Bank Field. Stadium manager SMG Jacksonville will deploy Siemens MindSphere, the company's cloud-based open IoT operating system, to gather detailed analytics on field status and performance to ensure playing conditions are always ideal.

On-field sensors will communicate with the Greenkeeper Analytics application, hosted on MindSphere, to create a visual dashboard. The software analyzes data based on temperature, fertilization, humidity, weather, and light conditions. As the system gathers more and more information, its predictive algorithms along with machine learning can forecast issues before they arise, like the probabilities of turf diseases.

For over 20 years, TIAA Bank Field has relied on Siemens intelligent building technologies to support nearly every aspect of the venue from automation of the facility's enormous HVAC capacity and lighting, to electrical controls, metering, fire alarm system, and the maintenance, service and repair of its mechanical systems. In fact, before the world's largest outdoor video boards can turn on, they draw enough initial power that Siemens building automation needs to stage the equipment sequentially to not exceed electrical peak loads, thus savings tens of thousands of dollars annually. In the future, MindSphere will be connected to these

systems throughout the venue to further optimize the stadium's performance, reduce costs, and move toward more predictive maintenance.

"Most fans don't realize it, but a stadium's turf is one of the facility's most critical components to the athlete performance and game outcomes given the size and athleticism of the players. With many linemen weighing more than 300 pounds, the playing field typically takes some hits with every game," said Nick Fedewa, Assistant Sports Field Manager for SMG Jacksonville at TIAA Bank Field.

"This MindSphere application will help us make sure the turf is as perfect as it can be for the game and recover faster moving onto the next one."

"Technology has been one of the best-kept secret in professional sports, and we've seen the incredible impact it can have on a facility's performance, the visitor experience, and for the players on the field," said Dave Hopping, President of Siemens Smart Infrastructure, U.S. "The work being done by the Jacksonville Jaguars organization, SMG and TIAA Bank Field in partnership with Siemens is groundbreaking for the industry and truly brings the power of the Internet of Things right down to the field to take the player and fan experience to the next level."

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Siemens Smart Infrastructure (SI) is shaping the market for intelligent, adaptive infrastructure for today and the future. It addresses the pressing challenges of urbanization and climate change by connecting energy systems, buildings and industries. SI provides customers with a comprehensive end-to-end portfolio from a single source – with products, systems, solutions and services from the point of power generation all the way to consumption. With an increasingly digitalized ecosystem, it helps customers thrive and communities progress while contributing toward protecting the planet. SI creates environments that care. Siemens Smart Infrastructure has its global headquarters in Zug, Switzerland, and has around 71,000 employees worldwide.

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