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Local Area Production System

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A central Manufacturing Execution System (MES) is a reliable and approved single-source-of-truth for production and material tracking. At the same time, a central system that integrates all automation systems and Enterprise Resource Planning can make it difficult to find slots for maintenance, updates or extensions. Its unavailability can be critical, potentially leading to a production stoppage. Additionally, integrating multiple heterogeneous systems adds a lot of complexity to the MES, increasing the need for frequent updates and maintenance. Local Area Production Systems (LAPS) improve flexibility and security while simplifying the MES without losing its benefits. LAPS integrates with a production area's automation such as the warm area and handles production tracking. It receives production orders, materials and schedules from the central MES and reports the production results. LAPS allows line operators to manage production independently for a set period, using a backlog of schedules, materials and production orders. This ensures continuity even if the central MES or other tracking systems are impaired or offline. LAPS streamlines production by managing line sequencing, material tracking, test monitoring, and post production tasks like weighing, taking samples and inspection. Its integration with automation systems simplifies MES standardizations, making system upgrades easier. In the future, LAPS will connect on-premise systems to a SaaS MES. PSI will introduce LAPS as part of the PSI Service Platform, showcasing its benefits for production environment.

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