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Global-Local Order Dressing: How Steel Producers Can Use Product Configuration and Rule-Based Engines to Generate Production Orders

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Quality specifications are crucial for the metals industry to ensure consistent quality and safety. Integrating these specifications into the manufacturing execution system (MES) is essential for maintaining expected quality levels, minimizing errors, and enhancing efficiency, thereby meeting regulatory requirements and customer expectations. However, metals producers with geographically distributed locations face challenges in ensuring compliance with international quality standards, such as inconsistent data representation across different systems and varying completeness levels. Addressing these challenges requires a robust strategy that includes effective communication, standardized processes, and advanced technology integration. Our presentation will introduce how Global-Local Order Dressing serves as a central knowledge base for the steel industry, enabling producers to leverage a unified quality repository with local download capabilities. As part of the digital transformation journey which is required for process optimization, the solution provides instant access to centralized industry specifications, reducing time-consuming and error-prone data entry at each local instance, allowing quality assurance teams to focus on core tasks and enhance productivity. We will further show how regardless of the location, the solution ensures that all teams adhere to the same best practices, resulting in consistent and high-quality outputs.

Keywords: Order Dressing; Quality; Global; Local; Efficiency; Quality Standards

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