

**Title:** ILOG Plant PowerOps - an adaptable manufacturing scheduling system

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**Abstract:**

The software demonstration will cover several typical use case scenarios in manufacturing for both production planners and production control personnel. We will show how these users can use our system to create and interact with a detailed production schedule given incoming production orders. We begin by demonstrating a graphical planning board, where the user can specify scheduling parameters and generate an optimal or near-optimal schedule. An interactive drag-and-drop Gantt chart interface allows users to update parameters, modify schedules, freeze portions of the schedule and re-schedule. We also demonstrate a natural language maintenance and configuration interface from which users can adapt the software as business conditions and logic change. Users can extend the behavior of the system by specifying new constraints or how the constraint-based scheduling system should generate a high-quality schedule without relying on technical IT resources. An advanced interface is also provided for easily extending the data model. ILOG Plant PowerOps is currently available in limited release.