

SMART SCM FRAMEWORK WITH MOZART

Keyhoon Ko

VMS Global, Inc.
1952 Gallows Rd STE 110
Vienna, VA 20120, USA

Seungyoung Chung
Byung H. Kim

VMS Solutions. Co. Ltd
U-Tower Building A 2001
767, Sinsu-ro, Suji-gu, Yongin-si
Gyeonggi-do, 16827, REPUBLIC OF KOREA

ABSTRACT

Accurate production schedule is a key attribute to collaborate among supply chain and meet the due date. Based on current progress using IoT (Internet of Things) technology as well as MES (manufacturing execution system), a simulation-based planning and scheduling system mimics the real manufacturing system and generates reasonable results. Simulation may be a useful tool to solve complex process schedule like semiconductor manufacturing or tons of sub-parts such as ship building and offshore industry. MOZART has been implemented in semiconductor, display panel, and tire industries as a planning and scheduling system. It covers weekly planning (Master Plan: MP), daily planning (Factory Plan: FP), and real time scheduling for these double-digit-day cycle time product manufacturing. MOZART extended the coverage to meet offshore project whose cycle time is several hundreds of days.