

**INTEGRATED DEVELOPMENT AND OPERATIONS TOOLKIT FOR PLANNING AND
SCHEDULING SYSTEM: MOZART®**

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ABSTRACT

MOZART® (manufacturing operation zone by abstract real time) is a development and operation environment under the VMS (virtual manufacturing system) concept. It is a development tool which enables users to customize their own planning and scheduling system effectively on the basis of a pre-built application library. It also helps users to operate the constructed system efficiently through project management, deploy management and task management modules. MOZART originated from the experiences and practices of SeePlan® which has been successfully implemented in Samsung Electronics, Samsung Display, SK Hynix, LG Display and Hankook Tire. The applications have played a key role in production planning and scheduling through the executable plans and transparency to due dates. It is reported that the plan keeps the level of accuracy by more than 95% and reduces the cycle time and work in progress by 20 to 30 percent.