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Microscopy on Demand

Microscopy on Demand in production: SMA has delivered its first Microscopy on Demand Add-on modules for productive use. Microscopy on Demand (MoD) refers to a conceptual software architecture that SMA has specified and developed over the last few years. This architecture makes it possible to integrate a microscopic infrastructure model with the macroscopic planning model for the specific tasks where microscopy is needed: i.e. running time calculation and conflict detection.

This combines the strengths of the macroscopic and the microscopic world in a single process. In particular, microscopic features are only used where required and are instantly available to the timetable planner through specific service interfaces without any system discontinuity. With this approach, the planning remains lightweight and smooth, while at the same time the resulting timetable can be checked microscopically at any time and in a highly integrated manner.

We have developed the MoD concept in a way that is independent of the system providing the microscopic services. Any system from a simulation tool, a detailed timetabling planning system through to the Traffic Management System itself could be used in principle, provided it can supply the required microscopic services.

