

MAIOR Suite[®]

Planning, Scheduling, and Operations



Clever Devices designs and develops breakthrough solutions for transit systems that are proven to increase efficiency and reduce operation costs while improving the passenger experience.

Transit agencies depend on accurate planning, efficient scheduling, and consistent operations to deliver safe and reliable service. The **MAIOR Suite[®]** provides a browser-based platform that brings network design, timetable creation, vehicle and operator scheduling, and operations management together in one integrated environment. By combining advanced optimization, multi-modal planning, and intelligent automation, the MAIOR Suite supports smoother workflows and more effective service delivery across bus, e-bus, light rail, streetcar, metro, and ferry operations.

Smart Optimization and Scenario Planning

The MAIOR Suite combines powerful optimization with flexible scenario management, allowing schedulers to generate efficient timetables, blocks, duties, rosters, and assignments and evaluate alternatives without impacting production. Scenario environments support holiday service, special events, and seasonal changes, with all modifications automatically reflected in downstream schedules.

Precise Rule Control and Data Propagation

The system incorporates labor agreements, rest requirements, EV charging, depot constraints, and rail restrictions throughout the scheduling workflow. The MAIOR suite has awareness of integrity dependencies, meaning any adjustments made in one module immediately cascades to the impacted service elements such as timetables, blocks, duties, and rosters. This empowers schedulers to make informed decisions and ensures consistent service during standard and exceptional operating days.

Multimodal Coordination in One Platform

The MAIOR Suite supports coordinated planning for bus, e-bus, streetcar, metro, rail, and ferry services within a single environment. Protected passenger transfers ensure smooth connections between any and all services to help create a more cohesive multi-modal passenger experience.

Network Awareness and Exception Based Adjustments

The system understands the operational structure of the network, including roads, intersections, and gates. Calendar-based logic automatically adjusts schedules during holidays or special events, ensuring accurate schedules without manual tracking. Visual tools further support comparisons between operating days.

Timetable Innovation for Stronger Passenger Experience

Corridor level headway management, automatic feeder trip generation, and interlining across routes help maintain consistent frequencies and increase service quality. Granular control over dwell time, recovery times, and time bands helps improve on-time performance throughout the day.

Automated Planning and Scheduling

The creation of trips, running times, blocks, duties, and weekly rosters, are automated, optimized, and kept synchronized across all modules. This reduces effort, minimizes inconsistencies, and supports both longterm service planning and responsive adjustments during the service day.

With the MAIOR Suite® your agency gains a unified environment that strengthens strategic planning, scheduling, and day-to-day operational coordination.

Reliable Service, Smarter Decisions, Better Use of Resources

The MAIOR Suite supports more effective operations by delivering consistent, data driven scheduling and tightly integrated workflows that keep planning, scheduling, and daily operations aligned. Scenario-based planning, multi-modal coordination, and automatic exception management logic ensures that service adjustments remain accurate even during holidays, special events, or seasonal periods.

Use Actual CAD/AVL Data for More Reliable Running Times

The MAIOR Suite uses CAD/AVL actuals data from CleverCAD to analyze running times and compare what is happening to what has been planned. By analysing drive durations, dwell times, and time band variations across day types, the system suggests more accurate running times that improve on-time performance. Updated values are automatically propagated to timetables and schedules, reducing manual corrections and helping maintain reliability across the network.



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