

# IVU.suite at the Transdev Group



## INTEGRATED PLANNING AND DISPATCH WITH FLEET MANAGEMENT



### INITIAL SITUATION

Transdev GmbH, the largest private operator of bus and rail transport in Germany, transports around 255 million passengers a year throughout the country. For a company with 45 subsidiaries and over 6,900 employees, efficient planning and scheduling of vehicles and personnel is essential. For this purpose, Transdev used different locally installed systems, and managed them on a decentralised basis in the various regions.

### OVERVIEW

<b>Employees</b>	More than 6,900 employees in 45 subsidiaries
<b>Vehicles</b>	391 railcars, 21 passenger railcars, 5 locomotives, 15 trams, more than 1,400 buses
<b>Transport services</b>	Annually 255 million passengers, 43 million train kilometres, 68 million bus kilometres, 0,6 million tram kilometres
<b>Operations</b>	Public transport Distribution and maintenance
<b>Objectives</b>	A centrally integrated planning and dispatch system Simplifying and standardising processes Cost savings in the use of resources
<b>Special features</b>	Cross-company working processes Standard products for fleet management and ticketing
<b>IVU products</b>	IVU.run, IVU.duty, IVU.vehicle, IVU.crew, IVU.fleet, IVU.cockpit, IVU.ticket.box, IVU.fare, IVU.ticket

## OBJECTIVES

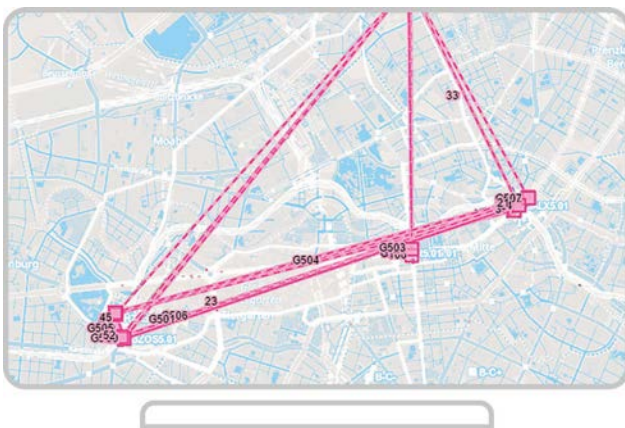
In order to standardise the resource planning and dispatch of the different bus and rail companies in the group, Transdev was looking for an integrated IT system that would unify all planning aspects of bus, tram, and rail transport. The chosen software should operate centrally to help to automate planning processes and reduce costs.

## SOLUTION

Transdev opted for the integrated planning and dispatching software IVU.suite due to the high degree of standardisation and the included optimisation components.

Thanks to its standardised interfaces, it was possible to integrate the software into the existing system landscape without any problems. The system makes it possible to define work processes in a uniform, transparent, and cross-company manner and to centralise technical operations. System changes and configurations can be made and rolled out centrally.

Planning and scheduling at Transdev benefit from the automation and optimisation tools of the IVU.suite, which help to plan everyday operations, in addition to helping with the numerous tenders in the fields of public transport and regional rail transport. With fully automatic variant calculations, parameter analyses and intelligent algorithms, the IVU.suite creates the basis for reliable decisions. The ability to flexibly weight costs, operational stability, and employee satisfaction allows Transdev to create optimal scenarios.



IVU.duty can display scheduled vehicle and personnel movements in a clearly arranged manner in a map

In addition, many of the subsidiaries of the Transdev Group put the integrated overall system for ITCS and ticketing of the IVU.suite into operation for their bus fleets. For this purpose, IVU engineers installed the on-board computer IVU.ticket.box in all vehicles. The device continuously records the bus's position data and transmits it to the ITCS IVU.fleet, which passes them on to the real-time information system.

The ticketing data is generated by the IVU.ticket ticketing software on the on-board computers and transferred to the IVU.fare fare management system for administration. IVU.cockpit always displays the correct route and important timetable details to the drivers.

IVU.crew also supports dispatchers with an automatic driver assignment to planned services and an individual roster layout check. Standardised interfaces also ensure a smooth connection to existing peripheral systems.

## OUTCOME

By unifying the planning and scheduling system for all subsidiaries and centralising operations management with the IVU.suite, the Transdev Group has been able to significantly reduce the costs of operations and organisation. The IVU software replaced the partially manual planning, thus ensuring a transparent planning process with a continuous data flow and a more flexible deployment of employees.

Last but not least, thanks to the automation and optimisation tools of the IVU.suite, Transdev was able to prevail in several tenders and thus win new transport services.

“Thanks to the IVU.suite, we can largely align and centrally manage our processes. This allows us to achieve a very high level of efficiency and makes life easier for our employees. This is a major step for us towards positioning us optimally for future growth and the challenges on the market.”

**Henrik Behrens**

Managing director for the bus division | Transdev GmbH