

MANAGES
COMPLEXITY
EFFICIENTLY.

IVU.rail

THE INTEGRATED RAIL CONTROL CENTRE

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IVU.rail

COMPLETE INTEGRATION OF RAIL OPERATIONS

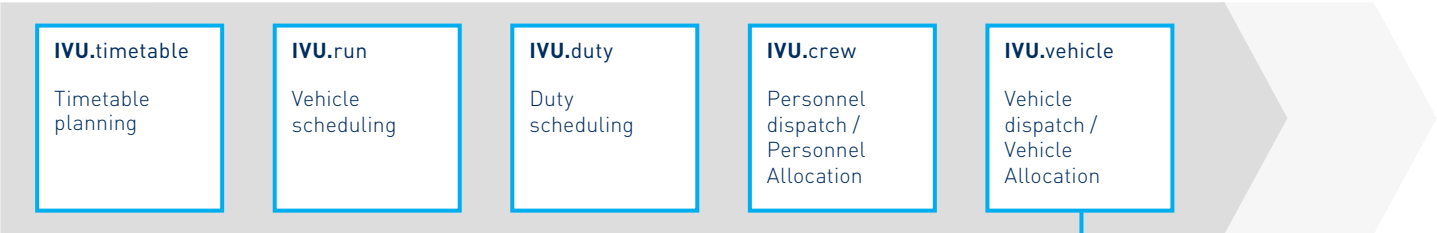
A digital workflow from the control centre to the passenger

From timetable planning and dispatching to disruption management and real-time information, IVU's rail control centre is a fully integrated standard solution with a continuous digital workflow that provides passengers with consistent information at all times and on all channels.

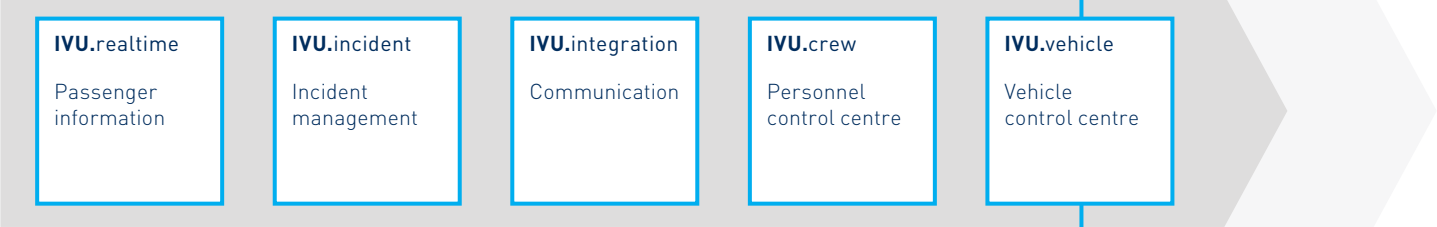
Transport operators have to take numerous factors into account in their planning and dispatch. As well as everyday challenges such as personnel being ill at short notice, vehicle restrictions, high passenger volumes, or damage to the track, decisions made by the infrastructure operator can also have an influence on the dispatch and further course of the trip. IVU's easy-to operate incident management provides support in the event of disruptions, with standardised documentation in the control centre log. In the vehicles, the comprehensive integration with the background system ensures that the on-board technical components such as the passenger count, interior monitoring, and passenger information work together smoothly.

IVU.rail's rail control centre ensures standardised data flows that harmonise different sources of information. The integration includes applications from planning to personnel and vehicle dispatch to the on-board software in the trains. Simultaneously, the system transmits all real-time information directly from the dispatch to the passengers. This ensures confidence, reliable planning, and shorter wait times – which means satisfied passengers.

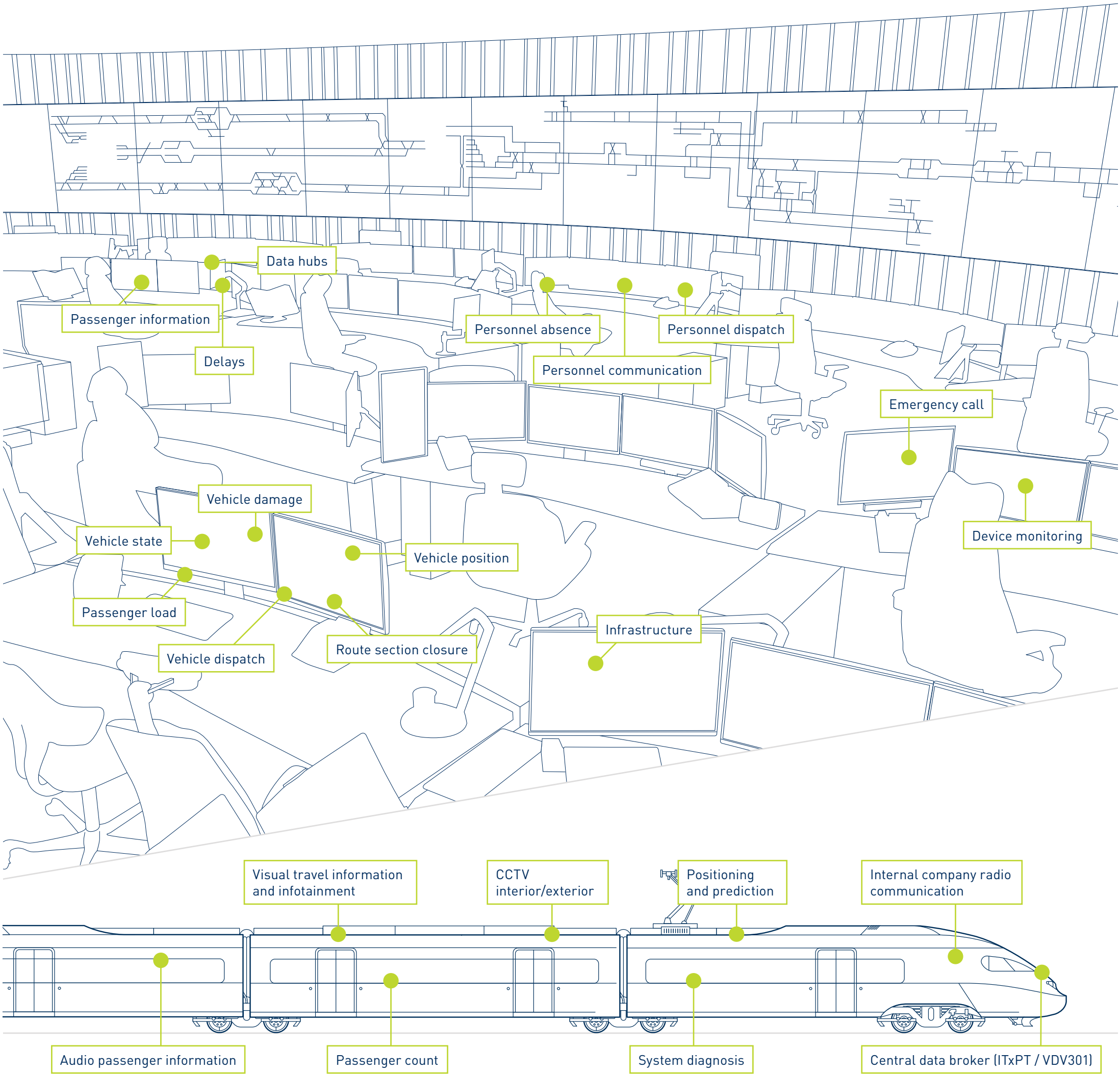
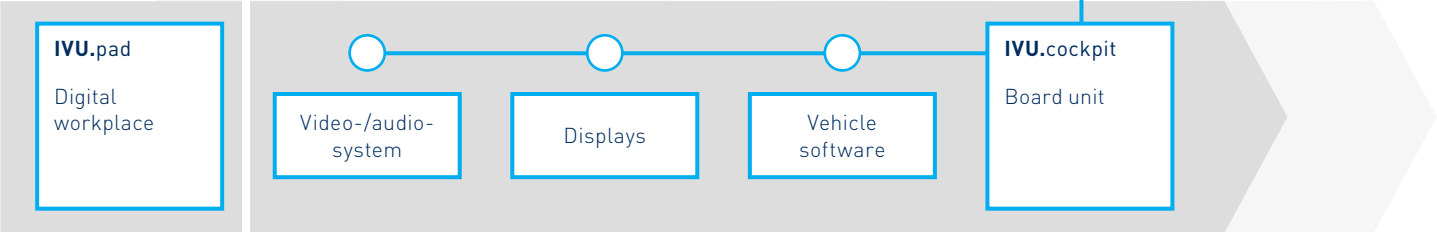
Planning & Dispatch



Control Centre



Rolling Stock



Your benefits at a glance

- **Integrated disruption management**
Shorter waiting times, no surprises – changes and disruptions at short notice are handled immediately and resolved quickly for all resources involved.
- **Consistent data flow**
Open and standardised interfaces ensure the same information on all channels – from the bus stop display to websites and apps to the data hubs.
- **Seamless communication**
IVU.rail automatically passes on dispatch related changes to the trip to the trains – keeping the drivers up to date at all times.
- **Powerful on-board software**
IVU.rail's on-board software monitors all communication with the rail control centre, processes all incoming and outgoing data, monitors the vehicle state, and manages connections.
- **Reliable real-time information**
Whether 10 or 10,000 connections – the on-board software processes and distributes uniform real-time data in a fraction of a second.
- **Alternative propulsion**
Whether electric or with hydrogen – the IVU.suite maps all work processes relating to the use of alternative propulsion systems.
- **Precise passenger load display**
Better distribution of passengers across the vehicle for more comfort – the passenger load display shows both the dispatch manager in the control centre and the passengers viewing outside displays the utilisation levels for carriages.
- **Integration services for vehicle manufacturers**
Everything from a single source – IVU takes care of the complete vehicle equipment with the corresponding hardware and software for vehicle manufacturers and railway operators.