AUTOMATIC VEHICLE LOCATION AND CONTROL SYSTEM (AVLC).

The next generation of inter-company communications.

IN COMPETITIVE MARKETS, QUALITY IS VITAL.

Competition in public transportation is on the rise – with a growing number of bus and rail routes being put out to bid. Local authorities demand tangible evidence that your services meet high standards in terms of punctuality and reliable connections. And all this at an affordable price. To master these challenges, you have to collaborate with other companies, subcontract selected tasks, and optimize internal processes. T Systems' state-of-the-art automatic vehicle location and control system (AVLC) delivers the functionality you need to cooperate effectively with your partners.
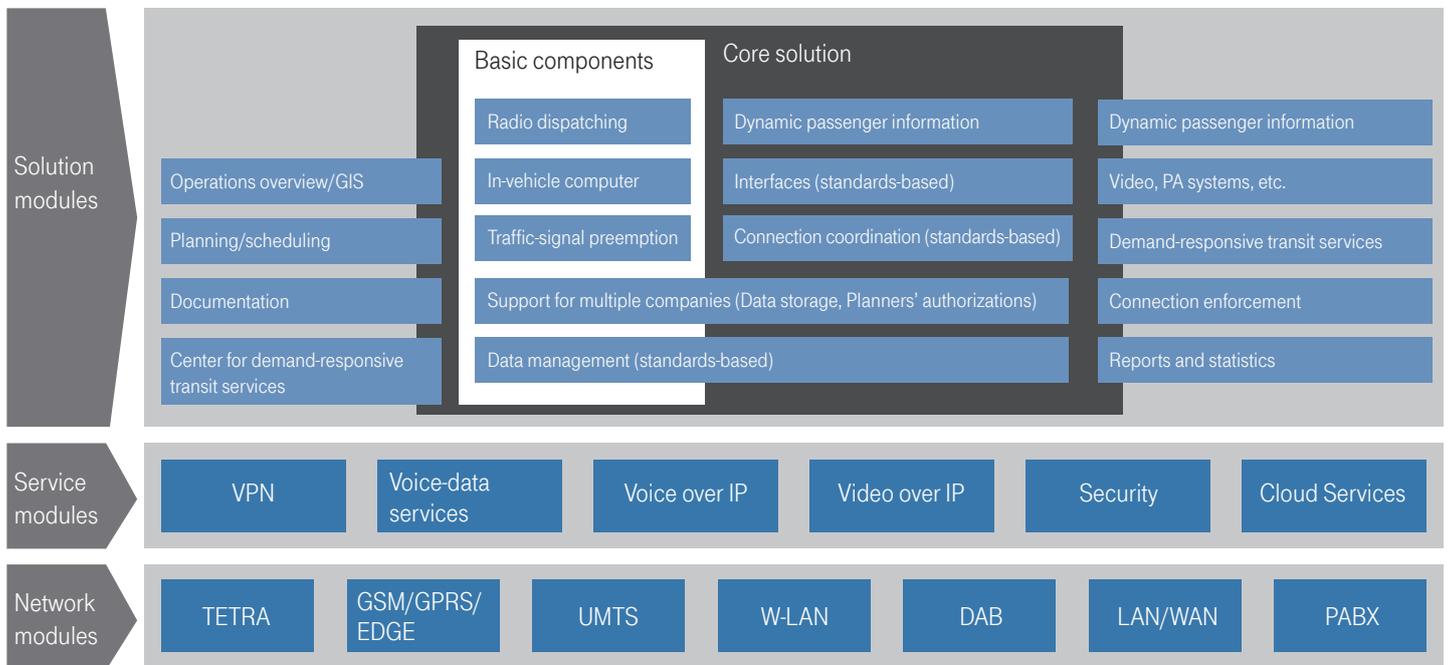
COLLABORATE AND CONQUER.

The T-Systems solution supports transportation processes involving multiple companies – providing a rock-solid foundation for efficient inter-enterprise communications and collaboration. It also incorporates a shared digital radio system – for example, based on terrestrial trunked radio (TETRA) or on the public mobile-telephony network (GSM/GPRS). Moreover, capital investment and operating costs are divided between all partners – lightening the load on everyone involved.

Each participating company can continue to operate its vehicles via its own control center. Clearly defined roles, responsibilities and access authorizations determine which data remains within your organization, and which is available to partners. This enables you to streamline processes via inter-enterprise voice communications, or by coordinating connections. And all data is logged, allowing you to provide customers with comprehensive documentation of your services – and keep tabs on your subcontractors.

What's more, the system allows you to hand over your entire operations to another control center during slack periods – opening the door to considerable cost savings.

T··Systems·

Solution modules

Basic components | Core solution

- Radio dispatching
- In-vehicle computer
- Traffic-signal preemption
- Operations overview/GIS
- Planning/scheduling
- Documentation
- Center for demand-responsive transit services
- Support for multiple companies (Data storage, Planners' authorizations)
- Data management (standards-based)
- Dynamic passenger information
- Interfaces (standards-based)
- Connection coordination (standards-based)
- Dynamic passenger information
- Video, PA systems, etc.
- Demand-responsive transit services
- Connection enforcement
- Reports and statistics

Service modules

VPN | Voice-data services | Voice over IP | Video over IP | Security | Cloud Services

Network modules

TETRA | GSM/GPRS/EDGE | UMTS | W-LAN | DAB | LAN/WAN | PABX

The modules of T-Systems' Automatic Vehicle Location and Control System (AVLC)

SCALABLE IN LINE WITH YOUR NEEDS.

This modular T-Systems solution can be scaled to your specific requirements. It enables easy implementation of lean installations for small organizations or complex high-availability systems for large vehicle fleets. So whether you're a highly local or major regional transportation operator, you can select the modules that are right for you – adding more as and when needed.

MODULAR ARCHITECTURE.

The AVLCS solution architecture is based on network modules (such as TETRA, UMTS, and WLAN). These are the foundation for the voice and data services, which are utilized, in turn, by the solution modules – including radio dispatching, core modules, and optional components.

INTER-COMPANY COLLABORATION VIA CORE SOLUTION MODULES.

The core solution comprises all the value-adding features – from dynamic passenger information and coordination of connections, to support for multiple companies and inter-enterprise data transfer.

TOTAL CONTROL – VIA OPTIONAL FUNCTIONALITY.

The core modules are enhanced by a range of optional features. These enable you to tailor your control capabilities to the size of your workforce, your vehicle fleet, and the geographical area you serve.

A BIRD'S-EYE VIEW OF YOUR OPERATIONS.

The T-Systems solutions allows you to display a wide variety of information, including views of your:

- Network
- Lines
- Individual stations/stops
- Geographical areas (digital maps)

Automatic monitoring functionality reduces your planners' workload. The system alerts users where corrective action is required – for example, in the event of delays or technical faults, or where timely end-of-the-line turnaround or connections are at risk.

ADDED-VALUE FROM T-SYSTEMS.

Our AVLC solution models best practices based on real-world customer projects. The result is a state-of-the-art system that enhances your competitiveness – and enables you to deliver the standards of service your customers demand. With T Systems, you reap the benefits of:

- Greater passenger satisfaction
- Collaboration between public transportation companies
- Added value via the functionality of cuttingedge digital radio systems
- Inter-enterprise data exchange
- Documentation of your operational services.