Intermodal Connection Assurance and Passenger Information

In population centers around large cities and industrial centers, traffic systems from different operators form the public transportation network. An essential ingredient for attractiveness and consumer acceptance of an intermodal service is a comprehensive system that ensures accurate information, seamless mobility and a connection guarantee between individual traffic systems.

The consolidation of accurate and relevant connection and passenger information from individual operators to a single platform enables improved efficiencies and quality of service for operators and passengers.

Functionality and Characteristics

Functionality

CSC’s Intermodal Connection System (ICS) is a software application that aggregates current traffic information from different operators and acts as a neutral platform to provide services such as:

- Data exchange with systems of individual transportation operators
- Connection supervision
- Information on connection options and alternatives to the inbound transportation operator
- Connection options and alternatives for passenger information

The ICS platform allows the specification of parameters such as acceptable delay times for determining appropriate connections.

Characteristics

Utilizing interface standards VDV 453 and 454, our comprehensive platform enables the exchange of data with other information systems. The architecture of the solution has been designed in the form of a star, in order to reduce the number of communication canals and to simplify the tasks of organisations such as the transit authorities, who broker information for member operators.
Assurance of Connections
In order to offer seamless mobility for passengers, traffic systems of different operators serving the same population center have to be coordinated. This first part of solving this requirement is a coordinated schedule which takes interconnections into account. However, the actual accomplishment of the traffic movements represented in the schedule can be subject to incidents, delays and other changes. These are taken into consideration by ICS in monitoring the actual traffic movements. Lastly, ICS manages the buffer time between interconnections to a realistic minimum allowing savings of energy and cost.

Passenger Information and Energy-Saving Operation
In the intermodal connection platform, schedule data and data on actual traffic movements are brought together for intelligent use. The resulting information is used to inform passengers and operators about the holding or releasing of planned connections, as well as to provide information on possible alternative connections. The provision of connection information for the vehicle operators enables a foresighted, energy-saving approach for completing the inbound travel to the connection point.

CSC Experience
Our proven success in transforming mass transit operations is based on solid experience and solutions expertise.
Addressing the growing importance of public transportation worldwide, we develop industry specific solutions for Mass Transit and provide consulting, systems integration, and IT enabled business solutions tailored to the unique needs of our many customers.
CSC is one of the leading global service providers in the area of the Information Technology (IT). In fact, we are regarded as one of the industry leaders and are listed by FORTUNE magazine as one of the “World’s Most Admired Companies” (2010) for IT Services. With our innovative IT solutions and services and provision of managed services, CSC supports customers in all important branches of the economy including Rail and Mass Transit.
We serve our Transportation customers with specific IT solutions and services such as:
- Consulting Services
- Dispositions and information systems for the rail freight traffic
- Operations Control Systems for regional passenger train and mass transit operators
- Accounting Systems
- Information and Communications platforms
- Simulation
- Introduction and integration of IT standard software
- Project management
- IT operations
- Managed Hosting
- Outsourcing

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Note: Interconnection Control System (ICS) is known as CP-IVP in Germany