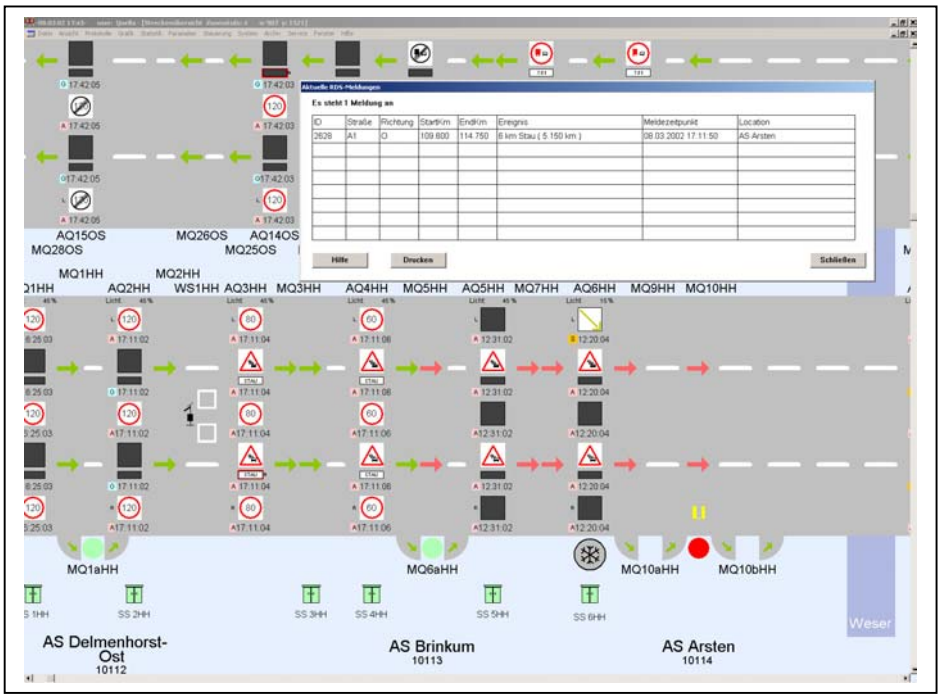
Sub-center



Application range

- **Traffic-Control-Systems (road-control, network-control, node-control, inflow-control, automatic parking-lane/shoulder release)**

Features

- **operating systems Microsoft Windows NT4 / 2000 / XP; data base system Microsoft SQL Server 2000; programming Visual C++ 6.0**
- **client/server architecture; multi-processing and multi-threading implementation**
- **central communication server on TCP/IP-socket base; thus the individual processes can be voluntarily distributed on different computers within the network**
- **data exchange via telegrams in TLS format (only OSI3 and OSI7-layer)**
- **due to the small kept volume of data communication, distant computers in the system (e.g. data concentrators, operation stations) can be connected over relatively slow connections (starting from 9600 Baud); data can be transferred compressed using various procedures**
- **distant computers can also be connected to the communication server via logless connections (e.g. serial connections; here a defined data exchange protocol with compression functionality is used)**
- **simple TCP/IP interfaces for data exchange with systems of other manufactorers**
- **data base system for archiving and configuration of processes; the data base does not perform data distribution between the processes, saving hardware resources and providing for fast and reliable communication within the system**
- **simple creation and extension of system visualization by means of a self-developed visualization processor**
- **during operation, on-line parameterization is possible via visualization and software updates, for system adjustment and optimization, if necessary**
- **Consistend with TLS ´93-´00 (Technical delivery terms for roadside stations) and MARZ ´99 (leaflet for the environment of traffic control centers and sub-centers)**

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Sub-center

Tasks

- Gathering of various raw data from the road
  (e.g. traffic data, environmental data, fault reports, switching reports)
- Evaluation, archiving and display of data
- Detection of the current traffic and environmental situation from the gathered raw data, in order to generate switching suggestions for variable traffic signs, variable text or variable routing
- Generation of flawless switching processes in regard to traffic laws traffic technological aspects
- Interfaces to superordinate systems (VRZ) and alien systems

Visualizationfeatures

- representation of routes in abstract and/or map-style form
- diagrams for abstract and/or map-style representation of routes with the following dynamic contents:
  - switching constitutions with switching causes from VMS[1], VTS[2] and VDS[3]
  - brightness levels
  - traffic data and environmental data
  - traffic situations
  - disturbances of TLS devices
- retrieval of various logs in table and graph form
- creation, release and termination of hand/special programs
- modification of parameters of the control models
- user administration

[1] VMS – Variable Message Signs
[2] VTS – Variable Text Signs
[3] VDS – Variable Direction Signs

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