

AVeL-RadioGATE

Message Switch

AVeL-RadioGATE is the message switch with a wide range of radio network interfaces. It resides in the AVL fleet operations center.

AVeL-RadioGATE is the radio communications gateway between mobile units and the fleet operation/dispatch workstations. It provides a data path to vehicles for applications that would otherwise be confined to the dispatch center.

TINR - Transparent Inter-Network Routing, a unique feature of AVeL-RadioGATE, enables operators to use different radio networks (public/private wireless data communications, cellular networks, GSM (PCS), CDPD, trunked and satellite communications), simultaneously. TINR manages inter-vehicle messages.

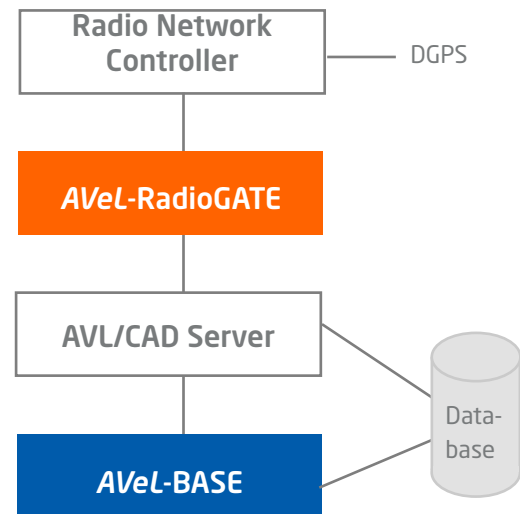
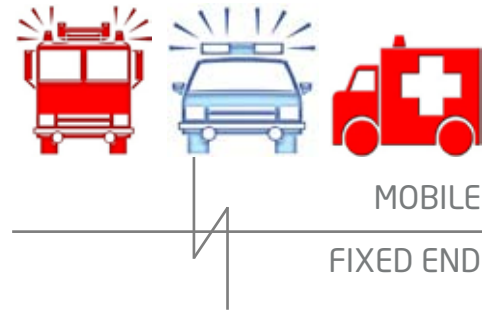
This allows operators to: control position reporting, control cadence, do messaging and vehicle to vehicle messaging, control parameters, through one or more existing or planned radio networks.

When AVeL-RadioGATE sends or receives a position, status report or message from the field, the data is switched to the appropriate recipient. In the case of AVL data, it is forwarded to the AVL-CAD Server, which in turn writes it to the AVL database, and then broadcasts all updates to AVeL-NET Base workstations over the LAN.

Differential GPS position processing, when used, is managed by AVeL-RadioGATE, in either broadcast or inverted modes. Positions reported by AVL systems are expressed in Latitude and Longitude. AVeL-RadioGATE determines a street address from a given Lat/Long position. This "geo-decoding" function is available to all AVeL-RadioGATE clients.

AVeL-RadioGATE usually serves a local or wide area network (LAN/WAN), enabling access to radio communications to many users. The software runs unattended on a dedicated computer/workstation running MS Windows NT.

TECHNICAL SPECIFICATIONS



Ortivus

2324 Sweet Parkway, P.O. Box 276 | Decorah, Iowa USA 52101-0276
Telephone: 800 537 3927 | Fax: 563 387 9333 | info@ortivusna.com | www.ortivusna.com



FEATURES AND SPECIFICATIONS

Operating System

- Windows 2003 Server R2

Ideal Minimum Hardware Required

- Pentium D or Xeon Dual core processor
- 2 GHz
- 1GB RAM
- 60 GB hard disk
- 1024 X 768 16 bit color monitor
- USB Port
- DVD ROM

Radio Networks Supported

- 1XRTT/ EVDO
- GPRS / EDGE
- Ardis
- DataTAC
- Motorola private trunking networks
- DataRadio

LAN Protocol

- TCP/IP
- UDP/IP
- RS-232
- ARL-100 (former MLU)

Features

- Message switching
- Transparent inter-network routing
- In-vehicle user interface update
- Address resolution
- Dispatch transmission
- Message reception and transmission
- Differential GPS processing (broadcast and inverted)
- Status reception
- Data compression pre-transmission
- Data expansion post reception
- Error detection and correction (where necessary)
- Inter process communication
- Optimization of radio channel AVL traffic

AVeL-RadioGATE is a trademark of Ortivus. Windows NT is a trademark of Microsoft Corp.

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