



Making Airport Runways and Roads Safer



## **WEATHER, TRAFFIC AND SAFETY** RUNWAY WEATHER INFORMATION SYSTEM

Saab, supplier of ITS consultancy and system integration for more than 20 years, provides a range of systems and services for roads, railways and airports, one speciality being weather monitoring, warning, and prediction.

Runway weather information is essential when improving traffic safety, reducing environmental effects and optimizing maintenance cost

Thanks to our state of the art open system solutions our customers can improve safety and road availability, cut costs and protect the environment. Saab integrates the best products and services available into one of the most comprehensive system solutions on the market.

Our solutions can be adapted to meet your needs. We even give you the opportunity to add your own functions to the system, or take care of future modifications/expansions.

Saab offers support, service and training to ensure that you can operate the system independent of any expensive maintenance contracts or license fees. Traffic information like traffic counting, speed monitoring and weighing can also be integrated in the system

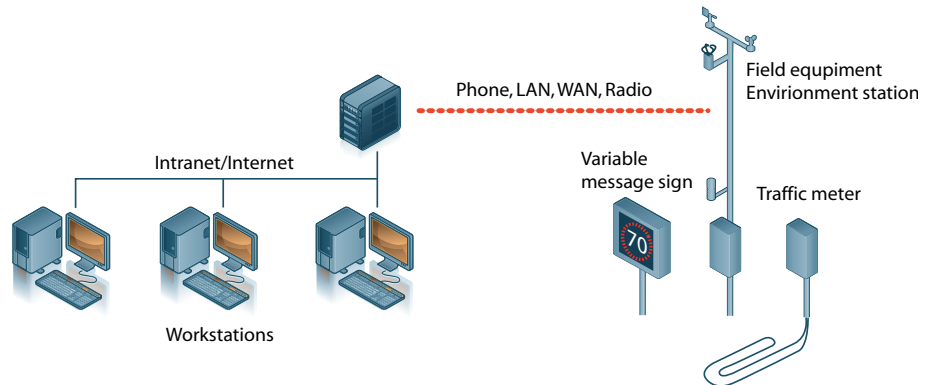
FIELD EQUIPMENT



The General Monitoring Station (GMS™) is used to handle sensors and equipment as described below. GMS™ is a very rugged custom designed field computer with a real time operating system.

- Communication over serial line, modem, radio, cellular etc.
- Wind, speed and direction
- Road surface temperature
- Air temperature
- Air pressure
- Humidity
- Dew point temperature
- Precipitation (intensity, type and accumulated amount)
- Visibility
- Groundfrost
- Road condition and conductivity (surface freezing point temperature)
- Solar radiation
- Flux metering
- Digital images (color and IR).
- Traffic monitoring (integrated traffic monitoring equipment).
- Mobile road condition (surface freezing point)

CENTRAL SYSTEM



Data from sensors is first collected and stored locally in the GMS™ field stations. The GMC™ (General Monitoring Computer) central system contacts the field stations regularly and collects data. This data is processed and stored in a central SQL database.

- The information can be made available to end users as web applications on Internet/ Intranet or as subscribed SMS messages.
- Information can also be made available to the general public on the Internet.
- Selected information can also be sent to other organisations, eg. transport operators.
- Other types of information can be integrated into the system (e.g. weather satellite images).
- Mobile solutions can be integrated into the system.

Specifications subject to change without notice