

# Next generation Police Vehicle Information System

## CHALLENGE

- Outdated radios, insufficient data access and poor usability
- End-of-life platform unable to support advanced features

## SOLUTION

- New platform based on standard components
- Agile development and testing in close collaboration with end users

## BENEFITS

- Cost efficient standard platform
- Intuitive and efficient user interface
- Police efficiency and safety

**Bifrost – Mobile Police Communication  
Platform for the Danish National Police**

# From analogue to digital

As old analogue radio networks are being replaced by digital networks, old police vehicle data terminals need to be updated in order to provide a better working environment and a platform for future advanced features.

Systematic has been chosen to build a new platform from standard components in close cooperation with the Danish National Police.

## Advanced platform based on standard components

The vision for Bifrost is to establish a strategic vehicle-based information system for the Danish National Police, which is capable of supporting current operational needs while being an expandable platform for future capabilities.

To keep costs low and the platform open for future expansion, a standard vehicle PC with Windows OS and touchscreen was selected. A unified user interface has been developed to integrate Digital TETRA radios, GPS navigation, control of lights/sirens, video recording and dispatch of tasks/messages/waypoints.

All functions are integrated in a user interface, which can be operated by using touch screen only and is optimised for day and night usage while driving.

## Field proven and user friendly

To support user adoption with very little training, emphasis has been put on a simple, intuitive user experience. Also, all possible safety measures have been taken, to ensure traffic and collision safety, including fully shatter-proof screen.

The user friendliness as well as the operational stability of Bifrost have been subjected to extensive field testing in different conditions. Continuous deployment and in-vehicle testing has been performed in close cooperation with the users.

A thoroughly tested Bifrost has been delivered to the Danish police, and is now being deployed across the fleet of patrol cars.

Support and maintenance of Bifrost is handled by Systematic's helpdesk, who supports SLA's for exchanges of faulty devices, quick resolution of software problems and requests for modifications.



## Features

- Standard In-Vehicle Computer with "10" touchscreen
- Compliant with all traffic/vehicle safety standards
- TETRA/Encrypted 3G radio
- Standard Operating System (Windows 7)
- Custom-built user-interface optimised for simple and intuitive in-vehicle work

## Fully integrates

- Radio communication
- GPS navigation
- Lights and sirens
- Digital video recording
- Task/message/waypoint dispatch
- Data look-up (people, vehicles etc.)