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# Cerberus PRO protects the Hague Public Transport Museum

Reliable protection thanks to the fire safety system Cerberus PRO and the efficient cooperation with the Siemens Solution Partner Steegman.

The Hague Public Transport Museum is housed in a national monument. Besides a collection of historical trams and buses, the museum functions also as an event and conference center. For the safety of its visitors and the protection of the historical collection, a reliable fire protection was needed.

## The project

The Haags Openbaar Vervoer Museum (HOVM), a museum of public transport, is housed in the old tram depot named 'Remise Frans Halsstraat'. The depot, built in 1906, is on the national list of historical buildings and was renovated in 1990.

A collection of historical trams and buses keeps the memory of public transport in the Hague alive.

Today, the museum also functions as an event and conference center which made a reliable and tailored fire safety installation even more important.

## The challenges

The historical building, the particular roof construction, the vents in the roof, and the many indoor 'obstacles' made the installation of a fire detection system difficult. Siemens and the Siemens Solution Partner Steegman Rotterdam designed and installed the best and tailored solution.

"It was certainly no ordinary job", explains Hans Tielen, director at Steegman. "In a national cultural monument it is nearly impossible to put a nail in the wall. So the fire detection system had to remain as invisible as possible. Furthermore, for a better air circulation, vents have been installed in the roof to 'air' the wet trams in rainy weather. Also, the building is obviously full of obstacles, such as trams. All these things hinder the smoke from ascending to the roof."

**Answers for infrastructure.**



### The solution

In March 2010, the Siemens Solution Partner Steegman Rotterdam started with the installation of the fire safety system. The powerful Cerberus® PRO fire control panel FC722 ensures comprehensive safety and combines high security standards with latest technology. For a fast and reliable detection of all types of fire 60 smoke detectors and multi-sensor fire detectors (OP720 and OH720) have been installed. As the museum with its specific building conditions requires very high sensitivity, an aspirating smoke detector has been integrated.

In June 2010, the project was handed over. Before hand-over, Steegman and Siemens did an efficient system testing in the special environment to assure best system performance. In the least accessible corner, behind a tram, a test fire was created in a fire vat by using a number of polyurethane foam mats. The fire brigade was also present there. Before putting the mats on fire, the aspirating smoke detection system had to be activated immediately.

### The benefits

Thanks to the installation of the Cerberus PRO fire detection system in combination with aspirating smoke detection, the monumental building is now perfectly protected against fire.

The special character of a national monument was respected by making use of the innovative and economic cabling concept which results in less wiring as well as lower installation costs.

The client OCW Panden B.V., a body of the municipality of the Hague, as well as the Siemens Solution Partner Steegman Rotterdam, are enthusiastic about the final result. OCW Panden B.V. was quickly persuaded by the effectiveness of the solution. Hans Tielen, director at Steegman Rotterdam stated: "The cooperation among the three parties was particularly good. That has certainly contributed to the success of this project."

### Highlights

- Cost-efficient solution – thanks to short installation time, minimal cabling, and minimal operating costs
- Cerberus PRO portfolio – reliable, high-quality products EN 54-approved
- Tailor-made solution respecting the building-specific conditions of the museum
- Efficient cooperation thanks to a successful partnership to ensure a timely hand-over

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Building Technologies

**SIEMENS**

Siemens Switzerland Ltd  
Industry Sector  
Building Technologies Division  
International Headquarters  
Gubelstrasse 22  
6301 Zug  
Switzerland  
Tel +41 41 724 24 24

The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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