

## D36.2

# Definition of the events, signals and phenomena to be monitored

## PUBLIC SUMMARY ONLY

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# 1 Public Summary

This deliverable is part of the task “early detection means of damage mechanisms and related scenarios in order to prevent them”. The purpose was to detect possible scenarios leading to a damage based on the first early signs or signals that appear in the transport network and can be monitored or detected.

The early detection and prevention means are listed in order to provide Public Transport Operators with functions and technologies relevant to identify, define and eventually stop damage scenarios. The approach used in this document is based on PTOs’ feedback and on a theoretical fault tree analysis of the related damage scenarios. In order to provide a more thorough look at the different security threats that a public transport operator may face, theoretical scenarios are also considered along the pragmatic daily security issues.

In order to achieve the objectives of this task, the events, signals and phenomena to be monitored are analysed and detailed in the threat scenarios. The output of this work is a set of available and reliable state-of-the-art detection techniques at the time of writing this document.

The different detection means considered allow:

- Measurement values or logical alarm states from various sensors,
- Video surveillance image analysis,
- Correlation of parameters and observed phenomena,
- Data fusion of information from several sources including information originating from the transportation system itself and information from the local and global threat environments.

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