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Subject: [railML3] Natural hazards detection

Posted by [christian.rahmig](#) on Mon, 18 Jan 2021 06:56:24 GMT

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Dear all,

in the railML use case working group "ITMS" the need for modelling natural hazard detection has been discussed. A first solution proposal has been drafted and formulated in Trac ticket #422 [1].

It is proposed to introduce a new functional infrastructure element <detector> with the attributes @detects to describe the type of hazard being detected, and @linkedWith to reference the detector with a <restrictionArea> that defines a certain operational reaction on the detected hazard, e.g. "no stopping".

We would like to collect your feedback in order to finalize the proposal. Here are some specific questions waiting for your answers:

- 1) Is there a need for a new functional infrastructure element <protectionSystem> to model infrastructure elements along the track protecting against specific hazards, e.g. fences against camels?
- 2) Shall other infrastructure elements like bridges and tunnels be linked with detectors and protection systems if they are installed?
- 3) So far, we looked on the natural hazard detection from an infrastructure point of view. How about timetable, rollingstock and other views on that topic?

Any kind of feedback is highly appreciated and helps us bringing railML 3.2 on track...

[1] <https://trac.railml.org/ticket/422>

Thank you very much and best regards  
Christian

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