Subject: [railML3.1] Signal aspect changes and simulation Posted by Victor Collod on Wed, 10 Feb 2021 08:40:12 GMT

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Hello railML.org!

I'm part of a software development team at SNCF Réseau in charge of making OSRD, a work in progress open source railway infrastructure editor and simulator.

https://github.com/dgexsolutions/osrd-core

We're trying our best to build our tool so it can simulate any signalization system supported by railML, but we haven't yet figured out how to simulate a few things:

- 1. when a route is activated, some signals have to change aspect. where are these relations defined? is it what aspect relations are for? our understanding is that an aspect relation defines a link between two signals, yet we aren't sure about what makes signals change aspect in the first place
- 2. we need to be able to simulate distant signals, but the Simple Example Step-by-Step guide v11 says it's not supported yet: "However, with railML3.1 there can be currently no relation described between any main signal and distant signal
- or repeater". Is it still true? If so, how do current simulators handle these cases?
- 3. is signalFunction relevant for the purpose of simulation?

A few things also felt odd when reading through SimpleExample:

- 1. rae01 is called "Cstadt RA1" but is at Bf Arnau
- 2. sig07 (69Va) seem to be a distant signal relaying sig04 (69A), but this link isn't specified anywhere, which seems to indicate distant signals indeed aren't supported. Is this intuition correct?
- 3. sig08 is switchable, yet not used anywhere in the interlocking description. What kind of signal is it?

Thanks for making railML, it's a cool thing for our community to have :)

If you believe railML or its partners may be interested in helping build OSRD, send us a message!

PS: what's the best way to contribute changes?