
Subject: Re: [railML 3] railway signal modeling

Posted by [Larissa Zhuchyi](#) on Wed, 14 Jun 2023 16:18:39 GMT

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Given the above clarification of Mr Nygreen (common coordinator of railML.org) and follow-up discussions of all the coordinators please provide your thoughts (agree, disagree, detailed answer) on these points.

The aim is to solve the distinction of the physical and the functional aspects of a signal. Functional the infrastructure.

Possible changes will be implemented in railML 3.3. Missing documentation will be added to railML 3.2 (railML 3.3 inherits).

Documentation for the schema.

(1) `isAnnouncementSignal` means that a train should announce itself (usually with a whistle, bell, or train horn) to warn about the train coming to e.g., level crossing. It does not mean that the signal announces the aspect of a following (main) signal.

Clarification for the wiki.

(2) `/railML/infrastructure/functionalInfrastructure/signalsIS/si gnallS/@isSwitchable` does not automatically mean light signal. Please use `/railML/infrastructure/functionalInfrastructure/signalsIS/si gnallS/signalConstruction/@type= "light"` to represent light signals.

This is due to the fact that light signals can be non-switchable [2]. Also, semaphores can be switchable as well.

Changes of schema to implement in railML 3.3.

(3) `@bell`, `@horn` and `@whistle` flags should be added to

`/railML/infrastructure/functionalInfrastructure/signalsIS/si gnallS/isAnnouncementSignal`.

(4) `/railML/infrastructure/functionalInfrastructure/signalsIS/si gnallS/isLevelCrossingSignal/@bell @whistle` should be removed because covered by `isAnnouncementSignal`.

(5) `@isShunting`, `@isRepeater` flags should be added to

`/railML/infrastructure/functionalInfrastructure/signalsIS/si gnallS/isTrainMovementSignal`.

(6) `@type` attribute with "main", "distant" enumeration should be added to

`/railML/infrastructure/functionalInfrastructure/signalsIS/si gnallS/isTrainMovementSignal`.

(7) `/railML/infrastructure/functionalInfrastructure/signalsIS/si`

`gnallS/isLevelCrossingSignal/@announcing` should be deprecated because covered by `isTrainMovementSignal` of `@type="distant"`.

Please provide your thoughts (agree, disagree, detailed answer) on these points.

[1] https://www.railml.org/forum/index.php?t=msg&goto=3097&#msg_3097

[2] https://www.railml.org/forum/index.php?t=msg&th=648&goto=2144&#msg_2144

Sincerely, Larissa Zhuchyi
