Subject: Route conditions
Posted by Jörg von Lingen on Fri, 05 Jul 2019 08:32:17 GMT
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Dear all,

in the railML2.4nor the characteristics of a route are extended by the attribute @conditional with possible values "manned"/"unmanned" with respect to the related OCP.

In case to include this in railML3.x I would suggest the following attribute values:

- manual = route is set only manually by operator, equals "manned"

- automaticRouteSetting = route is set only automatically by interlocking if triggered, equals "unmanned"

- automaticTrainRouting = route is set only automatically by a train management system (TMS)

Do we need also combinations of these values? Are there any other suggestions?

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Best regards,
Joerg v. Lingen - Interlocking Coordinator

Subject: Re: Route conditions
Posted by Thomas Nygreen JBD on Tue, 20 Aug 2019 12:35:06 GMT
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Dear Jörg,

First a minor correction: the values in railML2.4nor are "ocpManned" and "ocpUnmanned".

In railML2.4nor this attribute was introduced to put a condition on a given route, that it can only be set when the OCP is manned, or only when it is unmanned. I like your approach of instead describing how or by whom the route is set. And if it must be set locally, then naturally the OCP must be manned. The "ocpUnmanned" case corresponds to the route being just an extension of the previous one (as the entry signal is disabled) or set by Centralised Traffic Control (CTC). These cases may be included in your "automaticRouteSetting" and "automaticTrainRouting" cases, although CTC still involves an operator. Therefore, I am not sure that "manual" and "automatic" are the best choices of words, as the degree of automation vary both locally and in CTC systems.

An alternative approach would be to only reference the controller(s) that can set the route. Currently, the relations between controllers and routes are given through signalBoxes, implying

that any controller of a signalBox can set all routes referenced by the signalBox. Maybe the existing relations are actually sufficient for the Norwegian cases by creating separate signalBoxes for the virtual/CTC routes.

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Best regards,
Thomas Nygreen - Common Coordinator
