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Subject: Operation and Control System

Posted by [nfries](#) on Thu, 27 Nov 2003 16:49:00 GMT

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Hello,

concerning the discussion about the modelling of the Operation and Control Systems, I think it necessary to discuss some general aspects.

To be honest, I am not really pleased about the solution with a separate element for each technical component of the OCS because it will end in an unmanageable collection of different elements having all in common the function to describe a possibility of transferring information between infrastructure and rolling stock.

This collection will have to be updated continuously due to the needs of different user groups and might cover in the end different technical solutions for the same function (e.g. different types of balises) depending on the technical realisations implemented in certain national railway networks.

The RailML schemes have the purpose to be valid independent of national or company specific solutions. For that reason I thought about modelling the OCS in a more functional way i.e. replace the lineside components by the information to be transferred. Here we arrive at the problem concerning the future applications using RailML. Simulation programs normally do not ask for technical components but are interested in the transferrable information. On the other hand applications for infrastructure planning demand the opposite.

I am not really sure whether it is possible to satisfy these different needs without having two alternative elements (i.e. redundancy) to be chosen by the user. Maybe we can find a solution right in the middle between the technical and the informational way of representing the OCS. So far for now - with best regards,

Nikolaus

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