

# News of railML-Interlocking parts

24th  – meeting

Susanne Wunsch

[railML.org](http://railML.org)

Paris, September 18th, 2013

## Interlocking schema proposal

Status Quo

Overview

Feedback

Development

## Signal aspect integration

Generic concept

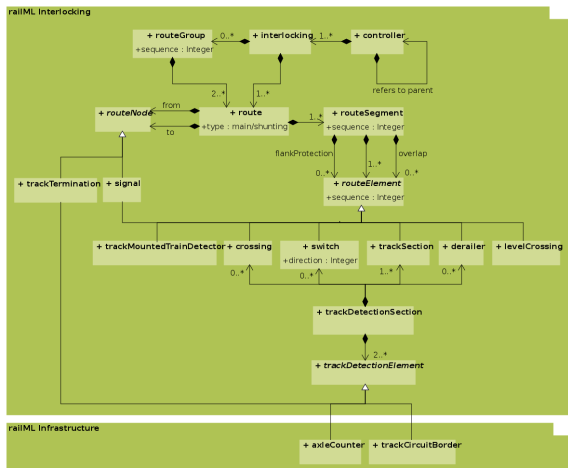
## Outlook

Next steps in the Interlocking development

## What happened?

- ▶ Last Interlocking workshop at June 13th, 2013 in Berlin
- ▶ Members: railML, Thales (DE, AT), Siemens (DE, NL, UK), Alstom, SBB, Infrabel, ON-TIME
- ▶ Open issues saved at the wiki page  
[http://wiki.railml.org/index.php?title=IL\\_IntendedFeatures](http://wiki.railml.org/index.php?title=IL_IntendedFeatures)
- ▶ Conclusions implemented into the interlocking XML schemas
- ▶ Proposal XML schemas sent out via the IXL-Mailing list
- ▶ Test implementations: ON-TIME, Siemens-NL

# Slightly outdated picture of the general Interlocking model



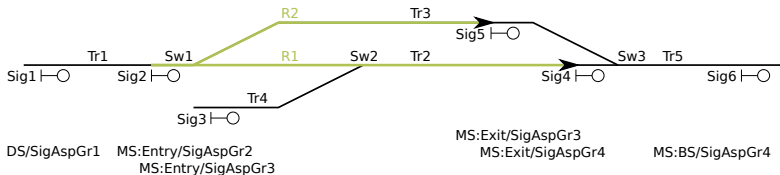
## Siemens UK / Invensys Rail opinion

“Generally speaking the news is very good. Aside from a few largely UK-specific points they really liked the model and also mentioned they’d be much more interested in using railML if interlocking was included (ETCS also came up. . .).” (John Easton, University of Birmingham, excerpt from an email)

## Changes since last XML Schema proposal

- ▶ Integration of signal types and according signal aspects into the route definition
- ▶ Some bug fixes
- ▶ Enhanced wiki documentation

## Generic concept



Signal types	Signal aspects	Signal aspect groups	Signal aspect dependencies	Routes
DS	caution	<b>SigAspGr1</b> caution, expect proceed	<b>SigAspDep1</b> MS:Entry → MS:Exit stop → failed reduced proceed 100 → stop proceed → proceed	<b>R1</b> Sig2 → Sig4: SigAspDep1 Tr1, Tr2 Sw1: right Sw2: right Sig1: SigAspDep3
MS:Entry	expect proceed	<b>SigAspGr2</b> stop, reduced proceed 60, reduced proceed 100, proceed	<b>SigAspDep2</b> MS:Entry → MS:Exit stop → failed reduced proceed 60 → stop reduced proceed 100 → reduced proceed 100	<b>R2</b> Sig2 → Sig5: SigAspDep2 Tr1, Tr3 Sw1: left Sig1: SigAspDep3
MS:Exit	stop	<b>SigAspGr3</b> stop, reduced proceed 100	<b>SigAspDep3</b> DS → MS:Entry caution → failed caution → stop expect proceed → reduced proceed 60 expect proceed → reduced proceed 100 expect proceed → proceed	
MS:BS	reduced proceed 60  reduced proceed 100  proceed	<b>SigAspGr4</b> stop, proceed		

## How to go further?

- ▶ Next meeting on September 19th, 2013 at UIC in Paris
- ▶ Collect feedback on current proposal, discuss this
- ▶ Implement resulting clarifications and changes
- ▶ Discuss use cases and implementation strategy
- ▶ Discuss interaction with planned new railML infrastructure model (railML 3.0)



# Thank you for your attention.

