
Subject: Re: [railML3] Need for modelling Lineside Electronic Unit
Posted by [christian.rahmig](#) on Mon, 09 Sep 2024 09:30:57 GMT

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Dear all,

christian.rahmig wrote on Thu, 06 June 2024 10:52

- 1) An infrastructure element for the LEU is needed.
- 2) A LEU should be able to connect with one or more signals.
- 3) A LEU should be able to connect with one or more balise groups.
- 4) A LEU should be able to connect with one or more balises.
- 5) A LEU should be able to connect with one or more euroloops.
- 6) The signal aspects to be evaluated by the LEU should be provided.
- 7) For each signal aspect to be evaluated by the LEU, the relevant route should be provided
 - * target signal of the movement authority
 - * required position of passed switches
 - * signals between start and target signal of the route (optional)

based on the above-mentioned requirements, I propose the following modelling:

- a) Introduce a new functional infrastructure element `\\linesideElectronicUnitIS`.
- b) Define repeatable child element `\\linesideElectronicUnitIS\\connectedToSignal` with attribute `@ref` to link from LEU to signal.
- c) Define repeatable child element `\\linesideElectronicUnitIS\\connectedToBaliseGroup` with attribute `@ref` to link from LEU to balise group.
- d) Define repeatable child element `\\linesideElectronicUnitIS\\connectedToBalise` with attribute `@ref` to link from LEU to (single) balise.
- e) Define repeatable child element `\\linesideElectronicUnitIS\\connectedToEuroloop` with attribute `@ref` to link from LEU to euroloop.
- f) Introduce a new interlocking element `\\linesideElectronicUnitIL` with attribute `@refersToIS` to link `\\linesideElectronicUnitIS`.
- g) Define repeatable child element `\\linesideElectronicUnitIL\\evaluatesSignalAspect` with attribute `@ref` to link a signal aspect that shall be evaluated by the LEU.

Is this model complete from your perspective?

Best regards

Christian
