

MODELS

OTL Spoor 2

concepts

- 1. Fysiek-Object ✓
  - 1.1. Fysiek-Deelsysteem
  - 1.2. Fysiek-Infra-Object
  - 1.3. Fysiek-Systeem
  - 1.4. Fysiek\_Infra-Objectonderdeel
- 2. Functioneel-Object
  - 2.1. Infra-Object
    - 2.1.1. Punt-Object
      - 2.1.1.1. Onderkomen
        - 2.1.1.1.1. Kast
          - 2.1.1.1.1.1. Wisselverwarming-Kast
    - 2.1.1.2. Punt-Object-Spoortak-Belegd
      - 2.1.1.2.1. Punt-Belegd-Baan
        - 2.1.1.2.1.1. ERTMS-Marker ★✓
    - 2.1.1.3. Micro-Topo-Object
      - 2.1.1.3.1. Micro-Topo-Object-Baan
  - 2.1.2. Lineair-Object
    - 2.1.2.1. Micro-Topo-Lineair-Object
      - 2.1.2.1.1. Spoortak-Functioneleview
        - 2.1.2.1.2. Spoortak-Fysiekeview
    - 2.1.2.2. Kunstwerk
      - 2.1.2.2.1. Tunnel
- 3. Link ✓
  - 3.1 Macro-Link
  - 3.2. Micro-Link ✓
    - 3.2.1. Micro-Link-Baan ✓
- 4. Node ✓
  - 4.1. Macro-Node ✓
  - 4.2. Micro-Node ✓
    - 4.2.1. Micro-Node-Baan ✓
- 5. BGT-Object ✗
  - 5.1. Generiek-IMGeo-Object ✗
    - 5.1.1. Generiek-IMGeo-Object-Vlak ✗
      - 5.1.1.1. Generiek-IMGeo-Object-Vlak-Met-Kruinlijn ✗
        - 5.1.1.1.1. Begroeid-Terrein-Deel ✗
- 6. Tekst
  - 6.1. ERTMS-Baseline ★
  - 6.2. ERTMS-Baseline-Versie ★
  - 6.3 ERTMS-Level ★
  - 6.4. ERTMS-Versie ★
  - 6.5. Richtingsindicator
- 7. Referentiepunt-Op-Spoortak-Met-Richting
  - 7.1. ERTMS-Dangerpoint ★
- 8. ERTMS-Dangerpoint\_Release-Speed ★
- 9. Grootheid
  - 9.1. Afstand
- 10. Supervised-Location
  - 10.1. End-Of-Authority
- 11. Ruimte
  - 11.1. Functionele-Ruimte
    - 11.1.1. Ruimte-op-Spoortak
      - 11.1.1.1. Ruimte-op-Spoortak-Objectafgebakend
        - 11.1.1.1.1. ERTMS-Gebied ★
- 12. Section-Time-Out ★
- 13. Transitiemarkering-Level-Prioriteit ★
- 14. ERTMS-Overlap ★
- 15. Nodepunt
- 16. Interne-Node-Link

general characteristics

concepts

- ✓ 1. SpatialThing
  - ✓ 1.1. Operational Point
    - ✓ 1.2. Point
      - ✓ 1.2.1. Node Port
- ✓ 2. Micro Link
- ✓ 3. Micro Node
- ✓ 4. Internal Node Link
- ✓ 5. Track
- ✓ 6. Tunnel
- ✓ 7. Vehicle Type
- ✓ 8. Manufacturer
- ✓ 9. Vehicle
- ✓ 10. Vehicle Keeper

ERA Vocabulary

ProRail IMSpoor XML

RINF

EULYNX

TNO SmartRail

general characteristics


concepts

- 1. Node
- 2. Line
- 3. Resource
  - 3.1. Vehicle
- 4. Track
- 5. Stakeholder
  - 5.1. Vehicle Keeper

INSPIRE

InteGRail 4

concepts

- 1. TargetSystem ✓
  - 1.1. NetworkTopologyElement ✓
    - 1.1.1. NetworkTopologyEdge ✓
      - 1.1.1.1. TrackNetworkEdge ✓
      - 1.1.1.2. LineNetworkEdge
  - 1.1.2. NetworkTopologyNode ✓
    - 1.1.2.1. TrackNetworkNode ✓
      - 1.1.2.1.1. NetworkNodeIOPoint
    - 1.1.2.2. LineNetworkNode
- 2. Tunnel
- 3. MovableSpatialThing
  - 3.1. RollingStockObject
- 3.1.1. Vehicle
  - id <http://www.integrail.info/ont/SP3A.owl#Vehicle>
  - description
  - mappings
  - sub-classes
    - SelfPoweredVehicle
    - NonSelfPoweredVehicle
  - relations
    - hasStatus 
  - alias

RailML 6

Ontorail 3

Racoon: University of Birmingham Rail Core Ontology and FuTRO 10

concepts

- general characteristics
  - 1. RouteGraph
    - 1.1. RouteNode
  - 2. RouteArc
  - 3. Independent Thing
    - 3.1. Domain Specific Thing
      - 3.1.1. Railway Domain Concept
        - 3.1.1.1. Infrastructure Concept
          - 3.1.1.1.1. Track
            - 3.1.1.1.2. Civil Thing
              - 3.1.1.1.2.1. Tunnel
      - 3.1.1.2. Rolling Stock Concept
        - 3.1.1.2.1. Railway Vehicle
  - 4. Dependent Thing
    - 4.1. Data Concept
      - 4.1.1. Identity Concept
        - 4.1.1.1. IDOrganisation

v2.9

2021-02-18