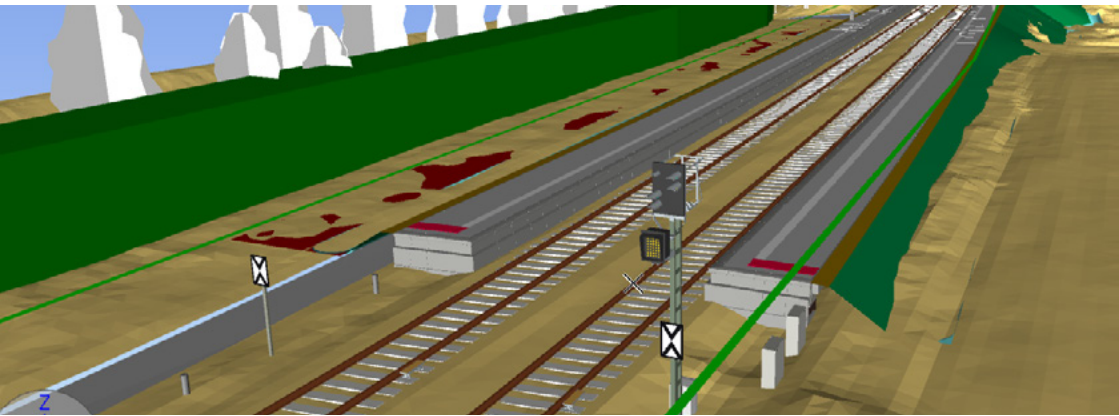




SIGNON BIM-Models

Services & Expertise

Drawing on our many years of experience in BIM modeling, we develop precise, standardised, and cost-effective digital models of installation for railway infrastructure projects.

- BIM modeling of installation for signaling, OHCL, telecommunications and power supply using Autodesk® Revit® and SIGNON-based OLAcad
- Development and maintenance of project-specific component libraries of the supported equipment
- Modeling in accordance with applicable BIM guidelines, rules and specific plans
- Provision of consistent data models for design, construction, and operation

Methodology & Approach

Our BIM methodology ensures the structured, traceable, and quality-assured creation of digital discipline-specific models throughout all phases of design. This includes, in particular:

- Modeling based on as-built data, design documents, and survey data
- Use of standard Revit® component libraries, supplemented by our own family models
- Ongoing model verification for plausibility, completeness, and data quality
- IFC-compliant data delivery for interdisciplinary exchange via various CDEs

Impact & Integration

Our BIM models provide transparency and stable design for all project stakeholders. The structured digital representation of building services makes the design process more efficient, minimises interface risks and lays the groundwork for cost-effective project execution.

Process

360 Degrees – Expertise for the Entire BIM Process



Learn more about
our services:

www.signon-group.com



Your Project – Our Structured Approach to BIM Modeling:

- 1 Project Analysis** – Identification of project-specific requirements, BIM specifications, and relevant regulations.
- 2 Data Preparation** – Preparation and evaluation of existing as-built documentation, CAD data, point clouds, and survey data within a BIM data model.
- 3 Model Construction** – Creation of a structured Revit® discipline model based on the BIM data model by linking elements to families in the component libraries and assigning the required attributes and attribute values.
- 4 Quality Assurance** – Regular model reviews to ensure compliance with modeling guidelines, data consistency, and coordination requirements.
- 5 Data Transfer** – Transfer of the models to the provided CDEs.

The 4 Key Benefits of BIM

The BIM methodology involves the model-based design, construction, and operation of a building and/or mechanical and electrical system throughout its entire life cycle.



Quality Improvement

Higher quality, energy- and space-efficient



Faster design

Shorter project duration



Greater transparency

Real-time cost and time tracking



Lower operating costs

Better decisions through simulation of the entire life cycle