SEMANTIC TREEHOUSE

THE COMMUNITY PLATFORM FOR MANAGING DATA MODELS

TNO innovation for life

Semantic Treehouse is the online platform that supports the management of semantic data models. What makes Semantic Treehouse unique is that it combines the publication, maintenance and governance for your data models in one place. Semantic Treehouse is based on more than 10 years of experience with developing, maintaining and sharing data standards. The platform can be branded and styled to your corporate identity for a recognizable user experience.

PUBLICATION

COMMUNITY

VALIDATION

MAINTENANCE

Semantic Treehouse consists of four integrated modules
– Publication
– Community
– Maintenance
– Validation

As a product developed by TNO, Semantic Treehouse offers two extra features:
– The platform can support the transition from hierarchical message models to ontologies and the Semantic Web.
– Second line support can be added to the platform by TNO, based on their extensive experience in developing and maintaining semantic data models.

CORE FEATURES

PUBLISH WEB-ACCESSIBLE STANDARDS

Semantic Treehouse improves the accessibility and readability of your data models and their documentation. Electronic business document models like invoices, purchase orders and many other message format can be browsed using the intuitive tree viewer interface, replacing the need for publishing PDF documents when you need web accessibility to your data model. In addition, the use of (external) code lists is an integrated part of our product. Your lists are always up-to-date and can also be accessed with our API, which allows for automatic integration. The publication module offers the possibility to provide code snippets to better understand the different use cases of the data models.

Semantic Treehouse provides a single source of truth for you and your users in an user friendly online environment.

MANAGE AND INVOLVE YOUR STANDARDIZATION COMMUNITY

An active user community is crucial to the adoption and success of your standardization activities. The Semantic Treehouse community module increases the involvement of your user community in the development and maintenance of the data models. It provides community members with easy access to submit change requests, review new versions and contribute to the development and maintenance of the data models. Our platform offers a private workspace for working groups, enables you to keep track of the requirements and wishes of your users and manage the community.

Semantic Treehouse enables you to actively involve the user community to develop, maintain and adopt your data models.

KEEP TRACK OF YOUR STANDARDIZATION PROCESS.

Maintaining a (semantic) data model and all related artefacts such as change requests, code lists, example files and business/validation rules requires a lot of effort and discipline from you as a standardization body. The maintenance module enables you to keep track of

changes, decisions, usage notes, and other valuable insights to build up the knowledge base about your data models. The maintenance module consists of integrated version management, change requests and review comments.

Semantic Treehouse supports your maintenance processes and provides a knowledge base that enriches your documentation.

VALIDATE YOUR BUSINESS DOCUMENTS AND CUSTOM BUSINESS RULES.

Implementing a standards-compliant API requires mapping standards data models to your own internal data structure, matching both semantic and syntactical differences, which can be challenging and error-prone. Therefore Semantic Treehouse provides integrated validation support for XML, XSD and custom business rules. Developers can select a data model, insert or upload a business document instance and check for compliancy. A detailed validation report is available to the user. The validation module can be integrated with existing automated validation solutions via the validation API.

Semantic Treehouse offers the user community the possibility to check their implementations against your data models.

ADDITIONAL FEATURES

READY FOR ONTOLOGIES AND THE SEMANTIC WEB.

The world of information sharing is shifting towards Linked Data and the Semantic Web. The business document paradigm is the foundation of the Semantic Treehouse and is prevalent in many day-to-day electronic information sharing However, our platform is ready to support the transition from hierarchical message models to ontologies when the time is right and your organization is ready.

For TNO this area of expertise is of strategic value. We continue to invest and develop this part of the platform.

GET EXPERIENCED SECOND-LINE SUPPORT.

For more than a decade TNO has developed and maintained semantic data models for a large variety of industries. We've deployed and supported standardization activities and have experience in all related areas, including governance, modelling, maintenance, managing a community, running a helpdesk and providing implementation support. Semantic Treehouse enables us to easily provide support to your organisation or your users if required.

Please contact us for more information about the possibilities of second line support from our Data Science department.

CURIOUS FOR MORE?

Do you want to explore the opportunities Semantic Treehouse can provide your organization? Please get in contact with us to learn more!

❭

TNO.NL

DATA SCIENCE DEPARTMENT

We create solutions for electronically sharing information in an efficient and controlled manner. These solutions enable meaningful information exchange within industrial and commercial sectors and across domains.

TNO
Kampweg 5
3769 DE Soesterberg
Postbus 23
3769 ZG Soesterberg

Linda Oosterheert
T 06 11 78 31 93
E linda.oosterheert@tno.nl

17-9412