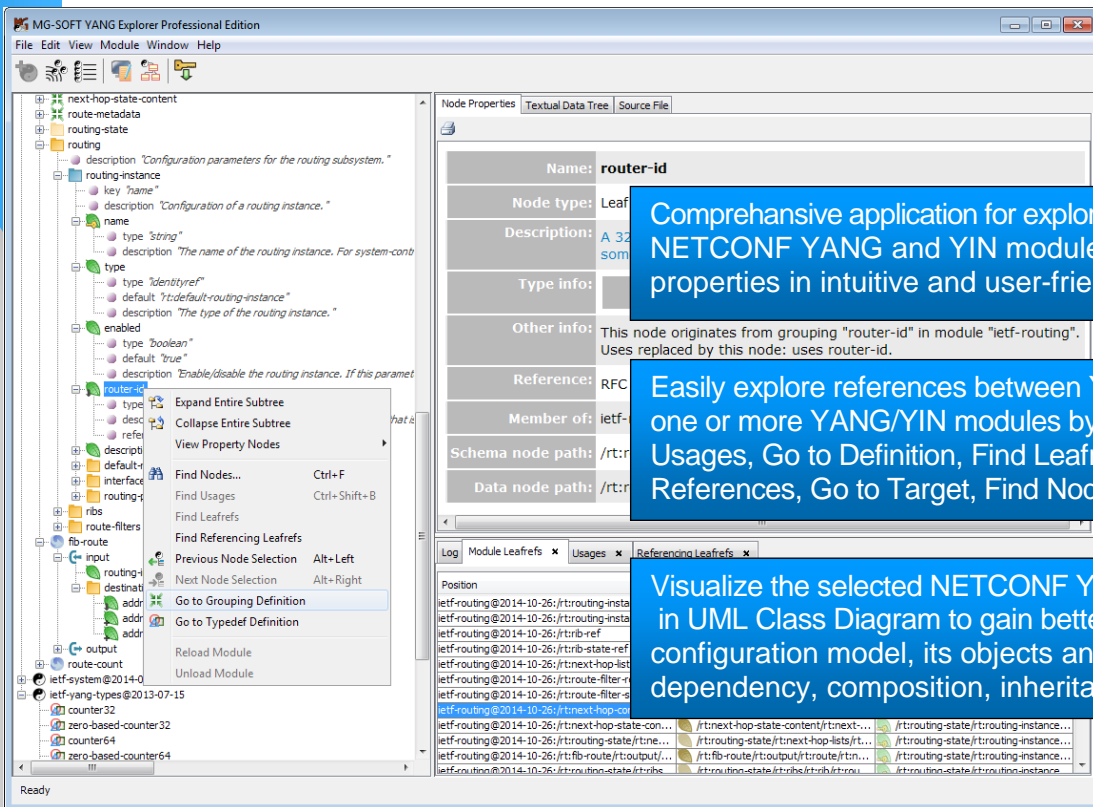


# MG-SOFT YANG EXPLORER



Comprehensive application for exploring and viewing NETCONF YANG and YIN module structure and object properties in intuitive and user-friendly manner.

Easily explore references between YANG statements within one or more YANG/YIN modules by using features like Find Usages, Go to Definition, Find Leafrefs, Find Leafref References, Go to Target, Find Node, etc.

Visualize the selected NETCONF YANG and YIN modules in UML Class Diagram to gain better understanding of the configuration model, its objects and relationships (e.g., dependency, composition, inheritance, etc.)

## MG-SOFT YANG EXPLORER – BASIC FACTS

MG-SOFT YANG Explorer Professional Edition is a powerful application that lets you load NETCONF YANG and YIN modules and explore their structure, properties, cross-references and relationships in an intuitive graphical user interface.

Application can load any standard or vendor specific YANG or YIN module and displays its contents in a visual manner. Module elements are shown as nodes of different types in a hierarchical tree structure. Nodes properties are shown in Node Properties panel.

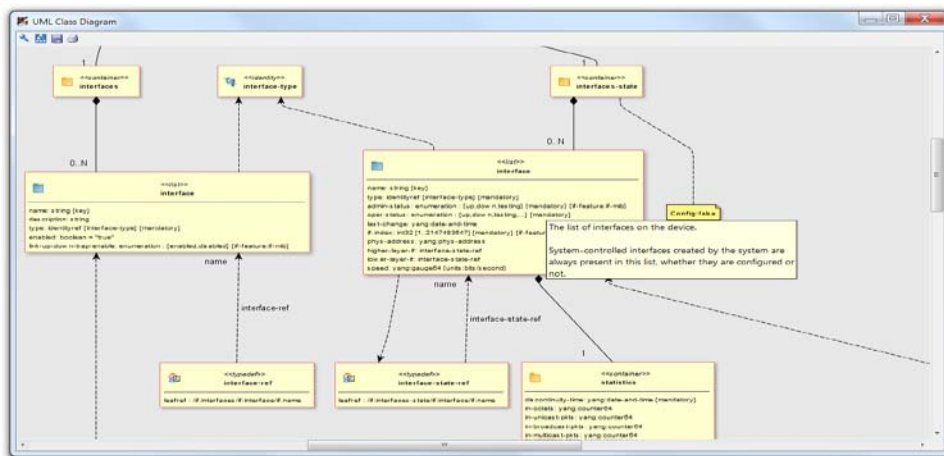
Application lets you browse, search and validate YANG and YIN modules in a user friendly manner, without having to master YANG or YIN syntax and rules.

## MG-SOFT YANG EXPLORER – MAIN FEATURES

- ❑ Application checks the syntax and semantics of every loaded YANG and YIN module and allows you to fully expand and explore the hierarchy of YANG statement tree, as well as view properties and description of each selected node.
- ❑ The software scans YANG and YIN modules for dependencies (i.e., the modules it imports and submodules it includes), and lets you scan user-specified locations for matching modules and automatically “registers” them for use with YANG Explorer. Information about registered modules and submodules is stored in a single place and can be viewed in the Known Modules window. This enables loading modules that have many dependencies with a single click of a button, or keeping and loading different revisions of a module.
- ❑ YANG Explorer offers a wealth of features that let you effectively explore references between YANG statements within one or more YANG modules and submodules. While exploring YANG modules, it is vital to be able to quickly navigate between a reference of a definition and the definition itself, for example, to be able to select an 'if-feature' statement and quickly locate the definition of the matching 'feature' statement. YANG Explorer offers such navigation whenever a

reference exists. The software also provides a reverse functionality that lets you quickly find all usages of a definition in the loaded YANG/YIN modules, e.g., to find all 'if-features' that reference a specific 'feature' definition. This is supported for 'typedef', 'grouping', 'identity', 'feature' and 'extension' statements. Furthermore, the software offers a quick way to find all "leafrefs" and their target schema nodes in the loaded YANG modules.

- ❑ The advanced Find Nodes feature lets you efficiently search through all loaded YANG/YIN modules for nodes of a specific type (e.g., a 'container' or 'leaf' or 'description' or 'config' or 'base', etc.). Furthermore, you can combine the regular text search condition with the node type search condition to quickly find a node of a certain type whose argument contains a user-specified string.
- ❑ Besides displaying YANG or YIN modules' contents in a visual manner, where module elements are represented in a hierarchical tree structure, YANG Explorer also features a view that displays the content of the YANG source file (i.e., YANG code). You can click any node in the YANG Tree panel to view the corresponding section of the YANG source file that defines the node/statement. In addition, the built-in Find toolbar lets you quickly find a specified text phrase in the YANG source file.
- ❑ As YANG code can be complex to read and understand, it is useful to examine the data tree defined by YANG statements in form of a concise textual tree. YANG Explorer provides this functionality by utilizing the notation which is often used in IETF discussions and publications. The contents of this view changes with current selection in the YANG Tree, so you can quickly obtain the textual tree representation of an arbitrary data tree branch.
- ❑ The software can visualize YANG modules in form of a UML (Unified Modeling Language) class diagram, where YANG nodes are represented as classes of different types, each with their attributes, methods and relationships (e.g., dependency, composition, inheritance, etc.). To gain a better understanding of the configuration model or its implementation requirements, you can explore the classes and their relationships within the scope of one or several associated YANG modules, exclude unwanted elements or branches, display or hide additional properties, zoom and pan the diagram, send it to a printer, etc.



- ❑ Integrated RFC 6110-compliant NETCONF Content Editor and Validator lets you easily compose any type of NETCONF XML document and validate it against DSDL schemas generated from YANG modules. You can edit a NETCONF document either by using the full-fledged XML editor featuring intelligent code-completion or by using visual editor, where you simply right-click a node in the tree view and add/remove elements and set their values by choosing entries from the context menu.
- ❑ A full collection of standard IETF YANG modules published in RFC documents come bundled with the software and are automatically loaded in YANG Explorer on first start.
- ❑ For more information please visit: <http://www.mg-soft.com/mgYangExplorer.html>



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