



protomatics

<http://www.protomatics.com>



Protomatics offers productivity tools and reference solutions that speed up the development of software message parsers. Using Protomatics tools significantly reduces your software development time while creating code that is easy to maintain.

Key product differentiators include:

- Support flexible and custom message encodings
- Handle messages that cannot be described by ASN.1
- Capable of parsing all CSN.1 defined messages
- Suitable for both standard and proprietary messages
- Auto-generate Wireshark dissectors
- Validated solutions for GSM/GPRS/LTE, CDMA and WiMAX

TSN.1 Compiler >

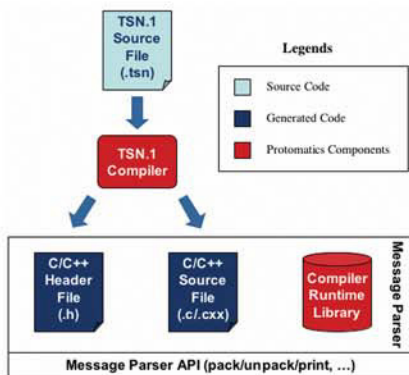
Automate your message parser development

Features & Benefits

- Automation significantly reduces your software development time and makes a large code base easy to maintain.
- Code is 100% ANSI C/C++ and compiles "as is" on most development platforms.
- Code runs on both 32-bit and 64-bit processors and works transparently on big and little endian machines.
- Code is fully re-entrant, thread-safe, and optimized for embedded applications.
- Code is highly memory efficient compared to handwritten parsers.

Overview

The TSN.1 Compiler is a code generator that auto-generates message parsing source code from message definitions. The Compiler takes TSN.1 specifications as input and produces C/C++/Java code as output. The Compiler also comes with a Runtime Library. The library provides an API for working with the messages with features such as packing/unpacking messages to/from raw data, printing messages to strings, etc.



TSN.1 Server >

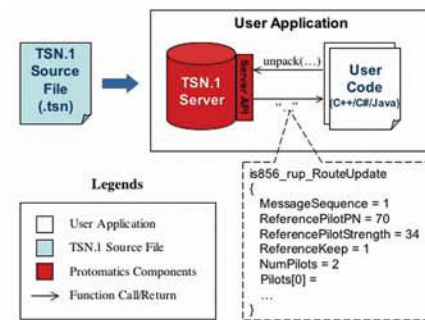
Streamline message processing for your test applications

Features & Benefits

- Eliminate the need to rebuild your diagnostic tools when message definitions change.
- Ensure your embedded application and test application are synchronized through the reuse of message definitions.
- Runs on many popular development platforms including Microsoft Windows and Linux.
- Allow direct integration with Java based test tools.

Overview

The TSN.1 Server is a dynamic message processing engine. It compiles TSN.1 source files at runtime. The Server does not generate any code. It stores the message definitions internally. Using the TSN.1 Server API, the user applications can create message instances, pack/unpack messages to/from raw data, print messages to strings, etc., all on the fly. Typical applications using the TSN.1 Server are protocol analyzers, diagnostic monitors, and logging utilities.



TSN.1 Editor >

Edit and diagnose your messages interactively

Features & Benefits

- Context-sensitive editor with auto-completion enables rapid test message creation.
- User friendly interface makes diagnosing message encoding errors fast and easy.
- Work with multiple messages simultaneously and save editing sessions.
- XML based session files make integration with other tools quick and painless.
- Run on many popular development platforms including Microsoft Windows and Linux.

Overview

The TSN.1 Editor is a GUI application that enables you to work with your TSN.1 messages interactively. Using the built-in context-sensitive editor with auto-completion, you can quickly create test messages for your applications. You can also use the Editor to diagnose message encoding errors. The Editor shows you graphically field-by-field decode output.

