DELIVERING THE TECHNOLOGY YOU NEED TO CONNECT THINGS

Just Clicks Away
With **ASN.1 Studio**, you literally need just a few mouse clicks to take any ASN.1 specification and actually run an application that encodes and decodes ASN.1 messages based upon it.

ASN.1 Studio can produce source code that demonstrates how to encode or decode any message whose type is defined in an ASN.1 specification. This generated demonstration source code can be copy-pasted into your application and the message sample fields can simply be replaced with the actual fields that a message should contain.

ASN.1 Studio can "export" its projects to a format that is understood by a target language compiler, linker or IDE, such as Microsoft Visual Studio. This further simplifies the process of building your ASN.1-based application.

Technology at work for you
**OSS Nokalva®, Inc.** a privately held company located in Somerset, New Jersey, has been offering the highest quality standards-based software, support and services since 1988. OSS has been instrumental in shaping and developing **ASN.1, 4G, XML**, and biometric standards and standards-based solutions.

Flexible solutions for your business needs
**OSS ASN.1 PRODUCTS**
All of the **OSS ASN.1 Tools** include **ASN.1 Studio™**, an intuitive ASN.1 IDE.

The **OSS ASN.1 Tools for C** is a powerful development toolkit for rapidly building applications using ASN.1, this product features a powerful ASN.1:2008 capable compiler, a run-time library with ASN.1 BER, CER, DER, PER, OER, COER XER, CXER, E-XER and JSON encoder/decoder engines that is the fastest on the market, and a rich collection of utilities to simplify and speed your development.

The **OSS ASN.1 Tools for C++** is the right choice if you use object oriented concepts in your application. The ASN.1/C++ compiler maps ASN.1 syntax into true C++ classes. The runtime libraries include C++ runtime classes to encode and decode application messages.

The **OSS ASN.1 Tools for Java** is a platform independent solution. The ASN.1/Java compiler maps ASN.1 syntax into Java classes. The runtime jar files facilitate encoding, decoding and various other operations on application messages.

The **OSS ASN.1 Tools for C#** is the solution for you if you would like to build an ASN.1 application in a .NET environment. The compiler maps ASN.1 syntax into C# classes, and the runtime DLL facilitates encode, decode, and various other operations on application messages.

**OSS Nokalva, Inc.**
Toll Free 888-OSS-ASN1 (US/Canada)
Int’l +1-732-302-9669
Email info@oss.com
Specialized Products

ASN-1Step offers our intuitive IDE, ASN.1 Studio for ASN.1 analysis and development. It is a powerful tool for working with ASN.1 messages in human readable format, featuring syntax checking, message validation, encoding and decoding, and much more.

ASN.1->XSD converts your ASN.1 specification into an XSD schema that can be used by XSD applications to exchange XML messages with ASN.1 applications.

XSD->ASN.1 converts your XSD schema into equivalent ASN.1 specs. All XML documents conforming to the original XSD would be valid XML encodings of the generated ASN.1.

The PER Analyzer add-on tool is highly recommended for protocol analysis and parsing PER (Packed Encoding Rule) messages at runtime. It provides detailed information about the PER encoding while allowing you to directly control the output format.

Compile-And-Go-Library (CAGL) is the best solution for dynamically compiling your ASN.1 specification at runtime – a perfect solution for CDR (Call Detail Record) processing applications. Use this runtime library to create, encode, and decode messages without having to rebuild your application.

Lean Encoder/Decoder (LED) is a great choice for deploying applications on resource constrained platforms such as embedded systems.

The ECN Tools eliminate the need for complex manual coding when trying to reuse legacy protocols, decrease bandwidth usage, reduce errors, or achieve other competitive advantages.

OSS 4G PRODUCTS

Building on our 25+ years of ASN.1 expertise and our high-performance PER encoder/decoder, OSS offers several 4G Products – our ASN.1 Tools with S1/X2, our NAS Encoder Decoder Library, our NAS-1Step product, and our LTE UE Protocol Stack. These 3GPP Release 8 - 12 compliant products offer the same performance, reliability, and quality that companies worldwide know they can expect from OSS.

The OSS 4G Products present a complete, powerful, yet easy to use 4G ASN.1 and NAS product suite that delivers everything you need to jump start your LTE development together with LTE schema, sample code, and technical support. The 4G Products available include:

- ASN.1/C Tools with S1/X2
  - ASN.1/C Compiler
  - ASN.1/C Encoder/Decoder Library
  - ASN.1 Studio IDE
  - ASN.1 S1/X2 Library, including API samples targeting eNodeB and MME development
- NAS-1Step, a visual tool for debugging NAS messages
- NAS/C Encoder/Decoder Library
- LTE UE Protocol Stack, a 3GPP Release 8 compliant implementation of Layer 2, Layer 3, and NAS.

OSS FAST & COMPACT XML PRODUCTS


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