

ASN.1
4G
BINARY XML



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OSS

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NEED TO CONNECT **THINGS**



OSS offers a suite of tools and IDEs that assist in the development of applications and protocols using ASN.1, 4G and binary XML.

The **OSS ASN.1 Tools**, available for C, C++, C#, and Java, offer a powerful development package for building ASN.1-based applications.

Building on our 20+ years of ASN.1 expertise and our high-performance PER encoder/decoder, OSS offers several 4G (LTE & WiMAX) solutions – **4G-Ready Tools**, and our **LTE UE Protocol Stack**.

Now you can take advantage of two complementary, proven technologies – XML and binary encoding. OSS offers three Binary XML solutions: **XSD Tools**, **Fast Web Services Tools (FWS) Tools**, and **Fast Infoset (FI) Tools**.

OSS' commitment to providing reliable products and services has earned us a reputation for excellence. We invite you to see for yourself - download a **Free 30-Day Trial** of our products.

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.

We support, on a 24x7 basis, an international customer base of more than 1200 customers including such widely known companies as Avaya, AT&T, Cisco, HP, IBM, Intel, LG, Mitsubishi, Motorola, Nokia Siemens Networks, Panasonic, Samsung, and Verizon.

Flexible solutions for your business needs

OSS ASN.1 PRODUCTS

The **OSS ASN.1 Tools**, available for C, C++, C#, and Java, offer a powerful development package for building ASN.1-based applications. These tools, ported to over 250 platforms, provide true ASN.1 2008, 2002, 1997, and 1990 support for all ASN.1 encoding rules. The OSS tools offer powerful features such as an intuitive IDE (ASN.1 Studio), unsurpassed speed, compact size, quality tracing and precise error messages, automatic encoding/decoding, multi-threading, dynamic memory options, and an interpretive ASN.1 API. The OSS ASN.1 products meet the most demanding needs of organizations worldwide. It is no wonder that so many organizations have selected OSS Nokalva products for applications such as: 3G/4G Mobile Systems (3GPP), Aviation, Security and Financial Services, Telecommunication Networks, Space Communication, Military applications, and many more.

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Connect to the World with OSS

Why choose OSS Nokalva?

OSS is the supplier chosen by the most demanding organizations worldwide because we do not deliver just software – we deliver our expertise.

- OSS delivers **reliability**. We have developed a robust software testing methodology that is applied to every one of our products. All software is subject to extensive automated testing that is repeated daily, not only for new products but also for existing ones, so as to ensure that code changes never introduce errors.
- OSS delivers **experience**. We know how to write high-quality code that can be safely ported to any existing software/hardware platform, and we have completed hundreds of such portings ourselves. Our ASN.1 codec libraries are already available on over 250 platforms, and this number steadily increases.
- OSS delivers **performance**. We know how to write code that runs fast on any computing device, including embedded systems, making optimum use of the available computing resources.

Specialized Products

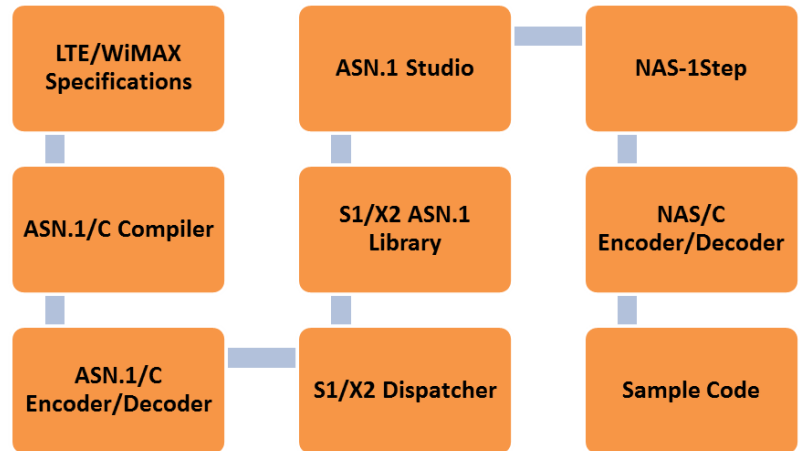
The **ASN-1Step** product, offering the intuitive IDE, ASN.1 Studio, is a powerful tool for ASN.1 analysis and development.

The **OSS PER Analyzer** add-on tool is highly recommended for protocol analysis and parsing PER (Packed Encoding Rule) messages at runtime.

OSS' CAGL (Compile-And-Go-Library) is the best solution for dynamically compiling your ASN.1 specification at runtime – a perfect solution for CDR (Call Detail Record) processing applications.

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4G-Ready Tools - Get all you need to support 4G ASN.1 and NAS development, all in one place, and all from a company whose commitment to quality and service you know you can rely on.

OSS 4G Products

Building on our 20+ years of ASN.1 expertise and our high-performance PER encoder/decoder, OSS offers several 4G solutions – our 4G-Ready Tools, and our UE Protocol Stack. These 3GPP Release 8, 9, and 10 compliant products offer the same performance, reliability, and quality that companies worldwide know they can expect from OSS.

The **OSS 4G-Ready Tools** is a complete, powerful, yet easy to use 4G ASN.1 and NAS productivity kit that delivers everything you need to jump start your LTE and WiMAX development. This 4G kit includes: LTE and WiMAX specifications, the OSS ASN.1/C Tools including ASN.1 Studio, ASN.1 encoding/decoding samples, as well as an S1/X2 ASN.1 Library, an S1/X2 Dispatcher, S1/X2 API samples targeting LTE eNodeB development, our visual tool NAS-1Step, and a NAS/C Encoder/Decoder Library.

The **LTE UE Protocol Stack** is a 3GPP Release 8 compliant implementation of Layer 2, Layer 3, and NAS, optimized for the memory, power, and performance requirements of user devices.

OSS Binary XML Products

Now you can take advantage of two complementary, proven technologies – XML and binary encoding. OSS offers three Binary XML solutions: **XSD Tools**, **Fast Web Services Tools (FWS) Tools**, and **Fast Infoset (FI) Tools**. The OSS Binary XML products available for Java, C and C++, optimize your XML and Web Services applications, reducing the size related costs associated with the transmission, parsing, and serialization of XML documents. You achieve cost reduction without losing XML's many benefits