

LTE Solutions

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**LTE-1Step
Testing/Analysis**

**LTE S1 & X2
Protocol Stacks**

**LTE UE
Protocol Stack**

With over 20 years experience supporting a 900+ worldwide customer base, OSS Nokalva has built a reputation as the leading vendor of ASN.1 development toolkits. Software developed using OSS toolkits has been deployed in mission-critical systems which support Telecommunications, Space, and Military applications, as well as innovative GPS and Intelligent Transportation System solutions. Building on our ASN.1 expertise and high-performance PER encoder/decoder, OSS is now offering LTE protocol solutions. We offer S1, X2, and UE protocol stacks and our LTE-1Step testing tool.

If you are looking for performance, reliability and quality, look no further than the OSS LTE solutions.

For more information about our LTE offerings visit www.oss.com, or email info@oss.com.

Protocol Stacks

- Optimized for Memory and Performance
- Embedded Platform Support
- Comprehensive Diagnostic and Debug Capabilities
- Interoperable
- Future Proof Design
- Proven ASN.1 CODEC
- 3GPP Release 8 Compliant
- Porting, Integration, and Customization Support

LTE-1Step

- Easy-to-Use GUI
- Create and Modify Complex LTE ASN.1 Messages
- No Need to Write Code
- LTE ASN.1 Syntax Provided
- Decode Messages into Human Readable Format
- XML Support
- Full-featured ASN.1 CODEC

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LTE-1Step Testing/Analysis

Today's LTE developers face the challenges of complex LTE S1, X2, and RRC ASN.1 messages and their associated changing ASN.1 syntax.

Reduce the time and risk involved in LTE application development, deployment, and maintenance with OSS Nokalva's new, full-featured, easy to use, LTE-1Step tool.

No programming or training is required. In a short time you can use the intuitive GUI to start building and verifying complex messages.

Create new messages by selecting from a list of Available Messages defined by the LTE S1, X2, or RRC ASN.1 syntax provided. Values for mandatory types are automatically created. Simply modify the initial values with the values you desire.

Avoid the tedious and error prone tasks of locating the correct syntax, and creating/modifying messages either manually or by writing software.

Trial available: www.oss.com

LTE S1 & X2 Protocol Stacks

The OSS LTE S1 and X2 protocol stacks are implemented as flexible combinations of several layers that allow the development of different types of LTE-based client and server applications.

The stack layers include:

S1/X2 ASN.1 Layer API

- message construction and validation
- encoding and decoding

S1/X2 Dispatcher API

- blocking and asynchronous S1/X2 calls
- timeout handling
- request and response matching (S1/X2 server side processing)

SCTP Transport Layer

- sending and receiving messages

The ASN.1 Layer API reduces development efforts by providing a set of functions that support S1/X2 data interpretation and construction tasks.

LTE UE Protocol Stack

The OSS LTE UE protocol stack is an implementation of Layer 2, Layer 3, and NAS (Non-Access Stratum) optimized for the memory, power, and performance requirements of user devices, including embedded devices. Layer 2 is an implementation of the PDCP, RLC, and MAC protocols. Layer 3 consists of an implementation of the RRC protocol layer. NAS supports communication with the MME and provides mobility and session management.

**For more information,
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