

LTE-1Step

Meeting the Challenges of Technology Evolution

Complex LTE S1, X2, and RRC ASN.1 messages and changing ASN.1 syntax challenge even the most resourceful developers.

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

The Challenge

LTE ASN.1 messages exchanged between eNodeBs, MMEs, and UE Terminals can be highly complex. Ensuring the accuracy of these messages demands the creation or verification of many messages. Frequently changing LTE ASN.1 syntax provides yet another challenge because messages must be recreated whenever new syntax definitions are released.

Today's LTE solutions require significant development time - creating complex messages, building software, and interpreting decoded messages to determine their validity. These solutions are difficult to develop, error prone, and require proficient software engineering skills. All these activities get in the way of your primary goal - developing an error free LTE solution.

Meet the Challenge

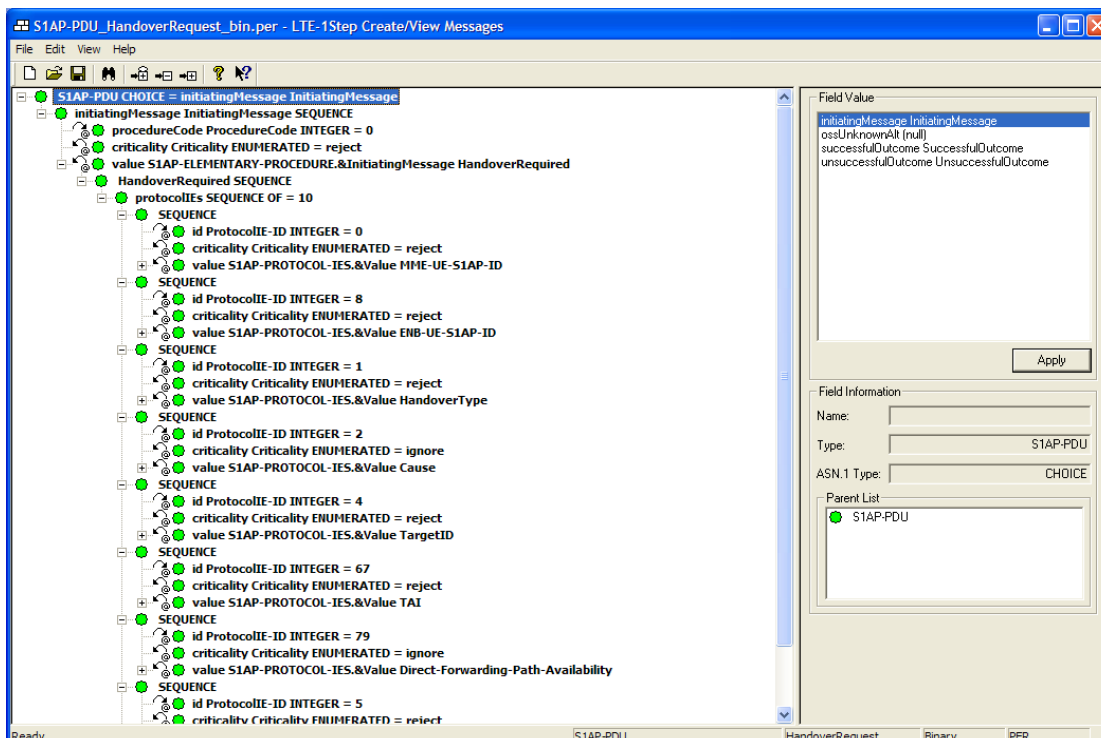
LTE-1Step, a cost saving, easy to use solution, allows you to quickly create, modify, and view encoded messages according to the LTE S1, X2, or RRC ASN.1 syntax provided. Avoid the tedious and error prone tasks of locating the correct syntax, and creating or modifying messages either manually or by writing software.

Strategic Benefits

- Reduce time to market
- Reduce product development and maintenance costs
- Increase your return on investment
- Boost your value proposition
- Gain an immediate edge on the competition

Key Features

- Easy-to-Use GUI
- Create and modify complex LTE ASN.1 messages
- No need to write code
- Guided selections and immediate feedback
- LTE ASN.1 syntax provided
- Decode messages into human readable format
- Full-featured ASN.1 CODEC



Intuitive GUI

No programming or training is required. In a short time you can use the GUI to start building and verifying complex test 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. Optional types can be included or excluded, and the lengths of variable length types can be set.

Rich Graphical Display

Display received messages in human readable format rather than as a string of binary or hex characters. Easily verify that messages are formed correctly.

XML Support

Convert binary LTE ASN.1 messages into XML and vice versa. Leverage your existing XML tools.

Managed ASN.1 Syntax

LTE-1Step is delivered with S1, X2, and RRC ASN.1 syntax. New LTE project files are provided when the 3GPP updates the ASN.1 syntax for the S1, X2, and RRC protocols. Just load the new project files to work on messages corresponding to the new specifications.

Generate Test Messages

Quickly and easily analyze and document application messages.

Powerful Search

Locate fields in large messages. Use the Find Dialog to search for a particular text string within a message. If the text is found then the associated field is selected.

Rich Decoding Engine

Visibility into the message data is critical. Working with data in primitive trace statements and raw hex dumps is very tedious and error-prone. Complex LTE messages increase the chance for error. With LTE-1Step's decoding feature, you see data in a highly readable format.

Validation

Immediate feedback is provided if an incorrect type value is entered. For enumerated types, a drop down list displays all valid values.

Syntax Checking

Quickly pinpoint syntax and semantic errors that may have taken hours to otherwise locate.

Encode

See how the encoding of any value will look before even beginning to write your application.

Decode & Analyze

Debug encodings within minutes – a process which may have otherwise taken hours to perform.

Trial available: www.oss.com

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OSS LTE Solutions**

LTE S1 & X2 Protocol Stacks – a flexible combination of several layers that allows the development of different types of LTE-based client and server applications

LTE UE Protocol Stack – an implementation of Layer 2, Layer 3, and NAS optimized for the memory, power, and performance requirements of user devices

For more information, contact :

OSS Nokalva, Inc.
One Executive Drive
Suite 450
Somerset, NJ 08873
USA
www.oss.com

Sales:

- Toll-free: (888)-OSS-2761 (US or Canada)
- +1-732-302-0750
- info@oss.com