

## FAST AND USER FRIENDLY ASN.1 VISUAL TOOL



**THE ASN.1 VALUE EDITOR SPEEDS UP YOUR DEBUGGING, INTEGRATION AND VALIDATION PROCESSES PER , BER, DER AND XER ENCODING/DECODING RULES.**

### VISUAL INTERFACE – VISUALIZE ANY ASN.1 DATA IN FEW CLICKS

#### USER-FRIENDLY

- ASN.1 values are displayed in a comfortable tree view.
- Immediate view of errors contained in your ASN.1 messages.

#### NUMEROUS EDITING CAPABILITIES

- Create, add, edit and modify any ASN.1 values.
- Copy, paste, remove, find/replace, filter...
- Comparison function to find differences between two ASN.1 complex values.

### POWERFUL ASN.1 FEATURES – CONFORMS TO ASN.1 STANDARDS AND SUPPORT THE WHOLE SET OF ASN.1 ENCODING RULES

#### DECODE/ENCODE ANY ASN.1 DATA

- ASN.1 Value Editor supports PER (aligned and unaligned) BER, DER, XER (basic and canonical).
- Support all ASN.1 Standard syntaxes due to its embedded ASN.1 compiler.
- Large files support such as CDRs and TAP3 roaming files.

#### USAGE FACILITIES

- ASN.1 debugger to ease the correction of your own ASN.1 syntax.
- Predefined ASN.1 syntaxes (LTE, UMTS...)
- Accept multiple encoded formats (bin, hex, txt, raw...).

### SAVE TIME – IMPROVE DEBUGGING, INTEGRATION AND VALIDATION

#### AUTOMATIC VALUE CREATION AND ASSISTANCE

- Ease values and/or messages creation and initialization using an interface.
- A basic mass generation module quickly allows creation of several values in a short time.
- Quick to master functionalities and user friendly samples.

#### TARGET APPLICATIONS

BTS, NodeB, Femtocell,  
LTE Mobile phone application,  
Roaming application, TAP3,  
CDR parser, Billing  
WiMax,  
NGTP for Automotive,...

#### About Marben

A leading provider of key software solutions for next generation service-driven networks.

#### More than 25 years of experience

Delivers interoperable, robust and efficient signaling, routing and AAA solutions to accelerate the delivery of network services.

#### Marben Customers

Alcatel-Lucent, Ciena, Cisco, Ericsson, Fujitsu, HP, Nortel, NEC, Nokia Siemens Networks, Tellabs, Verizon, ...

Affiliate of  
**NE Technologies, Inc.**

## TECHNICAL OVERVIEW

**MARBEN ASN.1 Value Editor** encompasses an ASN.1 compiler, encoding/decoding runtime engines and ASN.1 to XML translator. Support all set of rules: **PER** (both aligned and unaligned), **BER**, **DER** and **XER** (both basic and canonical).

### USER-FRIENDLY DISPLAY

ASN.1 values are displayed in a comfortable tree view. Offer copy, paste and append capabilities (offered by the tool) to add new fields in an existing value or to add new messages in the file. The information panel gives you all the ASN.1 type features of the selected field.

### IMMEDIATE ERROR DETECTION

Value Editor provides an immediate validation of any new value entered with regards to the ASN.1 type and associated constraints. Save time with an immediate localisation of erroneous values.

### ASN.1 DECODE/ENCODE

To decode values just choose the ASN.1 syntax and the encoding rules that you want to use. The decoded values are then displayed in the main panel using a tree representation.

To encode a value, you just choose the ASN.1 syntax and the encoding rules that you want to use. The encoding result is then stored in a file and displayed in the "Encoded Value" panel at the bottom of the screen.

Select the type of the message that you want to create by browsing a list of all possible messages of the ASN.1 syntax.

### ASN.1 COMPILER AND PRE-COMPILED SYNTAXES INCLUDED

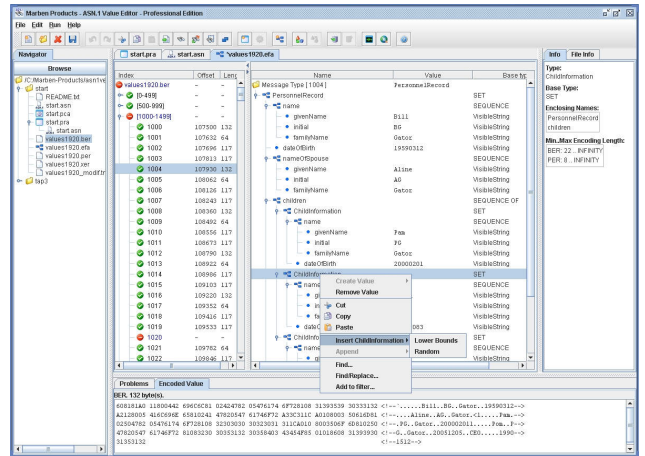
**Value Editor** includes precompiled/ready-to-use standard ASN.1 descriptions coming from various standardization organizations such as 3GPP, ETSI, ITU-T, ECMA and IETF. It also includes an ASN.1 Compiler that checks the syntax and the semantic of your ASN.1 description and provides user-friendly mechanism to precisely locate the potential errors

### INITIALISATION ASSISTANCE AND AUTOMATIC GENERATION

At the creation of the value, all the ASN.1 mandatory fields are automatically initialized. In addition, you can also set preferences in the tool to automatically create and initialize ASN.1 optional fields and to automatically instantiate a defined number of elements in a SEQUENCE OF or SET OF ASN.1 types.

### XML OUTPUT

**Value Editor** can export the ASN.1 value created in an XML format that conforms to XER (ITU-T X.693). You can then use this format for further processing or as an open format (non-proprietary) for storing your test scenarios.



## CONTACTS

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## CONFORMANCE

ITU-T Recommendations **X.680, X681, X682, X683, X690, X691, X693.**  
W3C Recommendations, XML schema (part 1 & 2),  
Extensible Markup Language XML 1.0 Second edition.  
Extensible Style sheet Language (XSL) version 1.0.

## RELATED OFFERS

**ASN.1 CDR Converter** a powerful and easy tool allowing you to rapidly decode and generate an output CSV (Coma Separated Values) text file format to parse CDR (any ASN.1 BER) encoded file without developing anything.

Our ASN.1 experts deliver you the best of Consulting, Training and Custom services.

## SYSTEM REQUIREMENTS

Windows 2000, XP or later  
Most Linux distribution (RedHat, Suse, Mandriva, Ubuntu, Fedora...)  
Sun Solaris 8 or later, HP-UX 11i  
Sun Java 2 version 1.4 or later.