

Spirent TTplugin ASN.1

Abstract Syntax Notation One

Spirent services

Spirent Global Services provides a variety of professional services, support services and education services—all focused on helping customers meet their complex testing and service assurance requirements.

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ASN.1 is a formal language for abstractly describing messages to be exchanged among an extensive range of applications involving the Internet, intelligent networks, cellular phones, multimedia services, Voice over IP and others.

The ASN.1 language includes several standardized encoding rules such as the BER (basic encoding rules), or more recently the PER (packed encoding rules).

Every ASN.1 file can be easily integrated into TTCN-3 using the ASN.1 plugin of TTworkbench. It transforms the ASN.1 notation into a TTCN-3 type system by supporting the complete mapping found in the TTCN-3 Standard Part 7: Using ASN.1 with TTCN-3.

Features & highlights

- Automatic generation of TTCN-3 representation from ASN.1 notation
- BER codec built in
- Support of cyclic ASN.1 imports
- Constraints validator included in compilation process
- Multiple modules per file
- Named numbers (constants for specific integer types)
- Named bits (constants for specific bit string types)
- Freely combinable with additional test access (TTplugins)

Optional extension: ASN.1 Codec Factory

The ASN.1 Codec Factory provides the link to the ASN.1 Java Tools libraries from OSS, and thus enables customers to reuse their OSS based ASN.1 codecs (OSS ASN.1 tools are not included).

Licensed users of the OSS package can use created ASN.1 codecs for BER/DER/PER and other supported codecs within TTworkbench. Please feel free to ask for assistance upon this issue and contact our team at tworkbench-sales@spirent.com.

tworkbench-sales@spirent.com

AMERICAS 1-800-SPIRENT
+1-800-774-7368
sales@spirent.com

US Government & Defense
info@spirentfederal.com
spirentfederal.com

EUROPE AND THE MIDDLE EAST
+44 (0) 1293 767979
emeainfo@spirent.com

ASIA AND THE PACIFIC
+86-10-8518-2539
salesasia@spirent.com

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