TITAN 8.1.0 CHANGE LOG (RELATIVE TO 8.0.0)

2021-11-09

HIGHLIGHTS

› C++ compiler

– Bugfixes ([495](#), [506](#), [544](#), [555](#), [556](#), [557](#), [558](#), [559](#), [560](#), [563](#), [572](#), [573](#), [574](#), [575](#))

– Object Oriented features improvements ([533](#), [571](#))

– Support Dynamic Matching ([548](#), [549](#), [550](#))

– Commit ID appears in version printout ([561](#))

– INTEGER(BIGNUM *other_value) Titan API call made public ([551](#))

› Eclipse Plug-ins

– Bugfixes ([402](#), [406](#), [412](#), [420](#), [421](#), [426](#), [428](#), [430](#), [431](#), [440](#), [445](#), [446](#))

– ANTLR version updated to 4.7.1 ([409](#), [410](#))

– Object Oriented feature enhancements ([423](#), [424](#))

– Eclipse IDE UI enhancements ([397](#), [418](#), [441](#))

› Test Ports

– Java implementation of IPL4 Test Port

OBJECT ORIENTED FEATURES ENHANCEMENTS

› The aim is to fully support TTCN-3 Object oriented Language Extension v1.3.1 (Link to Standard) both in the compiler and the Eclipse Plug-Ins

› It is not yet done, however most changes are implemented.

› Full support for v1.3.1 is expected in next release

SUPPORT DYNAMIC MATCHING

› Support Dynamic Matching, as specified in "Advanced Matching", ES 203 022, 5.1 ([Link to Standard](#))

GIT COMMIT ID APPEARS IN COMPILER VERSION RINTOUT

› When issuing "compiler -v" command the output will contain the latest Git commit ID in order the exact source version from which the compiler has been built to be identifiable

› Example output:

```
> compiler -v
TTCN-3 and ASN.1 Compiler for the TTCN-3 Test Executor
Version: 8.0.0
Build date: Jul 14 2021 09:04:20
Compiled with: GCC 7.5.0
Using OpenSSL 1.1.1  11 Sep 2018
Commit id: 935ba6f596

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```
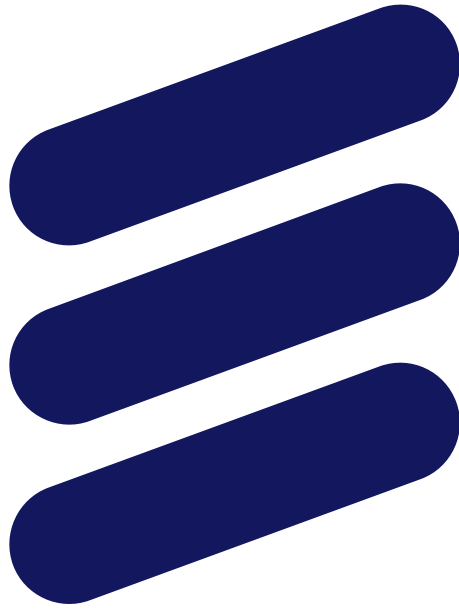
ANTLR VERSION UPDATED TO 4.7.1

› In Eclipse Plug-Ins the ANTLR has been updated to version 4.7.1

› Specifics can be found in this [forum topic](#).

JAVA IMPLEMENTATION OF IPL4 TEST PORT

› Although it is not strictly part of the release it worth to mention that the implementation of IPL4 Test Port is ready

› The IPL4 is the most widely used Test Port for Titan

› This is a big milestone for the java compiler and runtime in enabling the general usage of it for legacy codes