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TITAN 8.0.0 CHANGE LOG (RELATIVE TO 7.2.1 AND 7.2.2)

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HIGHLIGHTS



› General

- Titan source repositories moved to GitLab (<https://gitlab.eclipse.org/eclipse/titan>)

› C++ compiler

- Bugfixes ([402](#), [408](#), [486](#), [546](#))
- Exception handling implemented in Object Oriented features; the OOP implementation now complies to [v1.1.1](#) of the related standard
- OOP Standard Collections [published](#)
- JSON default handling optimization ([547](#))
- XML handling bugfix ([545](#), Backward-incompatible change!)

› Eclipse Plug-ins

- Bugfixes ([390](#), [399](#), [408](#), [411](#))
- Java compiler can produce CI-integrable output (EXPERIMENTAL) (<https://gitlab.eclipse.org/groups/eclipse/titan/-/epics/17>)

TITAN SOURCE REPOS MOVED TO GITLAB



- › From now on Titan source code can be downloaded from [GitLab](#).
- › Repositories from both GitHub and Eclipse git servers moved to a common place
- › With the move the contributor workflow is also consolidated to that of Gitlab ([Documentation](#))
- › Bugzilla tickets were converted to GitLab Issues
- › The "old" repos become read-only for 6 months; their description is updated with a notification containing the address of the new repository

OBJECT ORIENTED FEATURES V1.1.1 SUPPORT



- › As the final stage of the effort to fully implement the TTCN-3 Object oriented Language Extension v1.1.1 ([Link to Standard](#)) in the C++ compiler the Exception handling is done.

TTCN-3 OOP STANDARD COLLECTIONS PUBLISHED



- › In [1.2.1](#) version of the TTCN-3 Object-oriented standard the basic Standard Collections are defined in ANNEX B
- › The implementation published now is a reference implementation

JSON DEFAULT HANDLING



- › The new 'default' attribute described in the standard CR has been implemented alongside the old version.
- › The legacy syntax 'variant "JSON: default(...)"' is interpreted as the old 'default' attribute, whose parameter is a JSON value, and does not work for structured types (other than empty records or empty record ofs) or contain references.
- › The standard-compliant syntax 'variant "default(...)"' is interpreted as the new 'default' attribute, whose parameter is a TTCN-3 value, and works for all types and can contain references.
- › Both versions currently have the following limitation: the '\)' (closing bracket) character in the default value is interpreted as the end of the default value. The ')' character sequence can be used to add a ')' character into the default value.

XML NAMESPACE HANDLING CHANGE



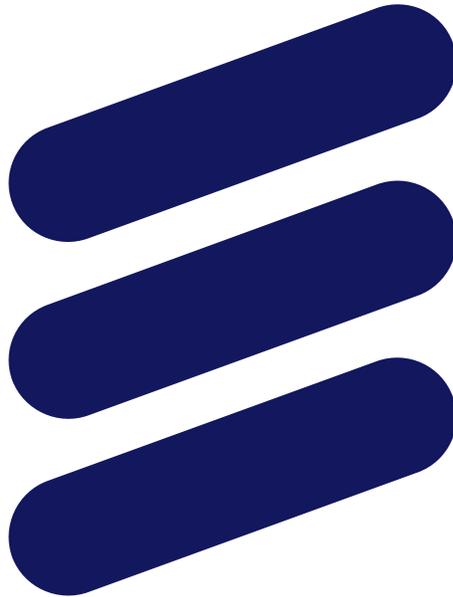
- › Global XML namespace variant attributes are now ignored for type references (i.e., subtypes, type aliases, record/set/union fields and record of/set of element types) if the referenced type also has an XML namespace set
- › **This change is backward-incompatible. Updating to Titan 8.0.0 may require changing source XMLs!**

JAVA COMPILER CI- INTEGRABLE OUTPUT



- › To support automation and integration of Titan Java projects into CI/CD pipelines, the following CLI features are available:
 - Importing Titan C++ and Java projects into the workspace
(see [User Guide for the TITAN Designer for the Eclipse IDE](#))
 - Building Titan C++ and Java projects
(see [User Guide for the TITAN Designer for the Eclipse IDE](#))
 - › Titan Java projects can also be exported into runnable JAR files
 - Executing Titan Java projects
(see [User Guide of the TITAN Executor for the Eclipse IDE plug-in](#))

- › Note that these functions are in experimental state meaning that they might not work as it is expected in every situation and will be improved in later releases!



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