

Release Notes ASD:Suite Release 4 version 9.2.7

The ASD Suite Release 4 V9.2.7 installation packages contain the ASD:Suite ModelBuilder, the ASD:Suite ModelCompare and a set of Command-line Client applications. All user documentation for this release can be found on the [Documentation pages](#) in the ASD:Suite Community. The documentation consists of:

- [ASD:Suite User Manual](#)
- [ASD:Suite Visual Verification Guide](#)
- [ASD:Suite ModelCompare User Guide](#)
- [ASD Runtime Guide](#)

Enhancements and corrections in the ASD:Suite Release 4 v9.2.7

- Use of the latest OpenSSL library.
- Company name and year change in the ASD:Suite clients and in the user documentation.
- Support for the latest code generator updates that provide improved compiler and runtime library support. Please see the [Release Notes ASD:Suite Release 4 v9.2.5](#) for more details about these updates.

Prerequisites

In order to make use of the new features and the resolved issues, you need to obtain access to the new version from your ASD Administrator.

For the dependencies to other tools under Linux, see the [installation instructions for Linux](#) in the User Manual.

Compatibility with Previous Versions

Note: The ASD:Suite Release 4 v9.2.7 is a correction package for ASD:Suite clients, therefore there are no new code generators released.

The ASD:Suite Release 4 v9.2.7 will read models that are created or changed with earlier versions of the ASD:Suite. Using an automatic conversion, it upgrades older model versions created with Release 4 v8.x.y or earlier.

Note: The Linux/Solaris tools will NOT read older versions. Converting can only be done under Windows. The current version will be convertible under Linux when we release a new major version.

Note: When upgrading from Release 4 v8.x.x be aware that there are features and changes that have an impact on the models and on the handwritten code. In particular, models that contain 'secondary references' cannot be converted directly. For a complete overview and for the steps to perform please read the following [Upgrade Guide](#). Read this carefully before upgrading your ASD models!

Note: ASD:Suite Release 4 v9.2.7 will not read ".mvr" files (containing the results of a verification session) created with Release 4 v8.x.x or earlier versions of the ASD:Suite.

KNOWN ISSUES

1. Under Linux, when starting the ModelBuilder, Compare Tool, or ModelViewer from the command-line, you may see a message about QSocket on the command-line during start-up and you may see messages when you click on a link to the Help pages. These messages are harmless and can be ignored.
2. Under Linux, if the installed version of graphviz is older than 2.23, state diagrams and model navigator diagrams will not show correctly. In that case, upgrade your copy of graphviz.
3. Under Linux, do not use backslash ("\") when you indicate a path in the 'Copyright-file' (the file you include in the 'Header and footer information' in the code generation section of the model properties. Forward slash ("/") works both under Windows and Linux, backward slash ("\") only works under Windows.
4. In case you are using Xubuntu 12.04 or 13.04 (32 bit, i386), the key-combinations of Ctrl + Function Key do not work correctly. This is a known issue of Xubuntu. As a workaround you can use the menu or toolbar for those actions.
5. In some cases (Windows and Linux) the verification progress indicator does not show a moving icon. In that case the light-blue box indicates that the specific check is busy.

Older known ASD:Suite issues

1. Namespaces (mainly for Java) together with long path names might lead to truncated file names when generating code and implicitly to build failures.
2. The Model Navigator cannot process older models (v8.x.y or earlier); you'll need to upgrade your models to v9.x.y in order for the Model Navigator to be able to show them.
3. Hardlinks to ASD model files using Linux/cygwin etc. are NOT supported (the ASD:Suite ModelBuilder will create new files). Softlinks to ASD model files cannot be opened. Only softlinks to directories work properly using the ASD:Suite ModelBuilder (opening and changing a model file in a real directory will propagate properly the changes to the 'softlinked' directory: changes are correctly seen. Vice versa also works).
4. In some cases the Visual Verification sequence diagram for an Interface Compliance Check may show the error at the last 'return (...)' event, while the actual error is located a few events earlier in the trace.
5. The red colouring of the active thread in the Visual Verification sequence diagram may not be consistent in all cases.
6. The ASD:Suite does not support Unicode characters. Only ASCII characters can be used.
7. Certain combinations of Multi-threaded and Single-threaded execution models are not possible yet, the server will return an error when one of the following combinations is present in a model:
 - Implemented Service is Multi-threaded, one or more of the Used Services is Single-threaded.
 - Implemented Service is Single-threaded, one or more of the Used Services is Multi-threaded and has one or more notification interfaces or one or more modelling interfaces.
8. Having multiple 'service references' in a design model to an application interface of a Singleton component is only possible under certain restrictions: the Singleton component may not have state (i.e. multiple states or any state variables), and the instances referring to the application interface may not also refer to any of its notification interfaces. If you do create an architecture that violates this constraint, the correctness of the generated code cannot be guaranteed.
9. Model names and file names (and interface names in case you're not using namespaces) must be unique within the scope of the entire project. This is not automatically checked yet by the ASD:Suite, and need to be ensured by you. If the naming conventions are not met this could lead to [verification errors](#), code generation errors or compilation errors.

