

# License Attribution Records

This wiki page tracks the use of non O-RAN SC charter open source licenses, such as BSD, MIT, etc.

## Background

Because O-RAN open source project charters specify Apache 2 and O-RAN Software v1 licenses, all code developed by the open source community under the O-RAN SC and O-RAN SCP projects must be under one of these two licenses.

However, there are cases where code originated from external sources, or automatically generated by code compilers/generators, need to be hosted under our repositories. In these cases, we ask the developers to

1. separate such injected code from O-RAN open source community developed code, in different subdirectories;
2. maintain the original foreign license claims of the injected code as such licenses generally require so;
3. based on Linux Foundation's legal advice, such uses must be documented and approved by the ToC.

This wiki page tracks such uses and their ToC approvals.

Please note that all foreign licenses appear here are considered open source friendly. They are not consider "copy left", neither the inclusion/use of code under these foreign licenses would compromise the O-RAN SC and O-RAN SCP licenses for code developed here. In other words, it is generally recognized as safe for including such foreign license code in our repositories. For more information about these licenses and their applicabilities in open source please see <https://opensource.org/licenses/alphabetical>, where the owner of the web site, the Open Source Initiative, is the "community-recognized body for reviewing and approving licenses as Open Source Definition -conformant".

(Note: FSFAP license is not currently listed on the OSI web site. It is an all permissive license originated by the Free Software Foundation. Linux Foundation advisory on FSFAP shows that it is safe to use for open source projects.)

## Request to Approve

Project	Repo	Location	License	Source and use	ToC Approval

## ToC Approved

Project	Repo	Location	License	Source and use	ToC Approval
INT	it/test	simulators/e2sim /ASN1c/*	Apache 2 and BSD-2 Clause	ASN1 compiler generated code	ToC meeting 2019-11-20, item 5.b.iv.5
ODUHIGH	o-du/l2	src/du_app/F1AP/asn/*	BSD-2- Clause	Source: ASN1 generated code Use: exchange of F1AP messages	ToC meeting 2019-11-20, item 5.b.iv.5
RIC	ric-plt/e2	RIC-E2-TERMINATION /asn1cFiles/*	BSD-2- Clause	This is the generic stub code that the ASN.1 compiler (asn1c) output needs to work correctly. Used with E2 ASN.1. Compiler is used from <a href="https://github.com/nokia/asn1c">https://github.com/nokia/asn1c</a> which includes a few fixes on top of <a href="https://github.com/velichkov/asn1c">https://github.com/velichkov/asn1c</a>	ToC meeting 2019-11-20, item 5.b.iv.5
RIC	ric-plt /e2mgr	E2Manager/asn1codec /e2ap_engine/*	BSD-2- Clause	See ric-plt/e2	ToC meeting 2019-11-20, item 5.b.iv.5
RIC	ric-plt /resource-status-manager	RSM/asn1codec /e2ap_engine/*	BSD-2- Clause	See ric-plt/e2	ToC meeting 2019-11-20, item 5.b.iv.5

RIC	ric-plt /submgr	e2ap/headers/*, e2ap /lib/*	BSD-2- Clause	See ric-plt/e2	ToC meeting 2019-11-20, item 5.b.iv.5
RIC	com/log	3rdparty/googlemock/*, 3rdparty/googletest/*	BSD-3- Clause	Used as test framework in this component from <a href="https://github.com/google/googletest">https://github.com/google/googletest</a> (googlemock is a subpart in googletest)	ToC meeting 2019-11-20, item 5.b.iv.5
RIC	ric-plt/sdl	3rdparty/googletest/*	BSD-3- Clause	Used as test framework in this component from <a href="https://github.com/google/googletest">https://github.com/google/googletest</a> (googlemock is a subpart in googletest)	ToC meeting 2019-11-20, item 5.b.iv.5
RIC	ric-plt/sdl	m4/*.m4	FSFAP	Used in compilation to abstract compilation environment.  Files in m4 directory have been downloaded from <a href="http://www.gnu.org/software/autoconf-archive">http://www.gnu.org/software/autoconf-archive</a> and used as-is.	ToC meeting 2019-11-20, item 5.b.iv.5
RIC	ric-plt /dbaas	redismodule/m4/*.m4	FSFAP	Used in compilation to abstract compilation environment.  Files in m4 directory have been downloaded from <a href="http://www.gnu.org/software/autoconf-archive">http://www.gnu.org/software/autoconf-archive</a> and used as-is.	ToC meeting 2019-11-20, item 5.b.iv.5
NONRTRIC	nonrtric	dashboard/webapp- frontend/ng, dashboard /webapp-frontend/npm	MIT	The de-facto standard web applications framework code and package manager is used.	ToC meeting 2019-11-20, item 5.b.iv.5
OAM	portal/ric- dashboard	webapp-frontend /ng, webapp-frontend /npm	MIT	The de-facto standard web applications framework code and package manager is used.	ToC meeting 2019-11-20, item 5.b.iv.5
SIM	sim/o1- interface	ntsimulator/yang/*.yang	BSD-3- Clause	These are the YANG files of the O1 interface which is exposed by the simulator.	ToC meeting 2019-11-20, item 5.b.iv.5
RICAPP	ric-app /admin	asn1c_defs/*	BSD-2- Clause	ASN.1 compiler generated code	ToC meeting 2019-11-20, item 5.b.iv.5
RICAPP	com/gs- lite	src/lib/gscpau/*	MIT	<a href="#">flex/bison parser generator tool generated code.</a>	ToC meeting 2019-11-20, item 5.b.iv.5
RICAPP	com/gs- list	src/ftacmp/*, src/tools /xml.tab.*	GPL2 w. Bison exception	<a href="#">flex/bison parser generator tool generated code.</a>	ToC meeting 2019-11-20, item 5.b.iv.5
RICAPP	ric-app /kpimon	asn1c_defs/*	BSD	ASN.1 compiler generated code	ToC meeting 2019-11-20, item 5.b.iv.5