

Open Source Components delivered with Big Switch Networks' Commercial Products

Purpose

This public, customer-facing document describes the third-party and open source dependencies of Big Switch Network's products. Customers may use this document to understand our internal dependencies (e.g., for vulnerability assessment) and implications of any licenses they inherit in using our products. The document is the "published documentation" referred to in the Big Switch Networks end-user license agreement (EULA):

(From BSN EULA)

4. Open Source Software.

The Software is distributed with certain independent software that is licensed under an open source license (such software, "Open Source Software"). The Open Source Software is identified in BSN's published documentation for the Software. To the extent that any of the terms and conditions of this Agreement that govern your use of the Software conflict with, or are in addition to, the terms of any such open source license, the conflicting or additional terms will not apply to the corresponding Open Source Software

Further, this document makes the distinction of "linked with Big Switch Software" versus "distributed with Big Switch Software" because it may have implications on how the software is used based on open-source software licenses (e.g., GPL). Specifically, any code that runs in the same process with Big Switch software is deemed to be "linked with" and software that runs in a different process from Big Switch software is "distributed with".

Commercial Products

Big Cloud Fabric (BCF)

Open Source Component	License	How used with internal component	Developer Owner
Elasticsearch Curator	Apache 2.0	Installed	
Elasticsearch/Logstash/Kibana	Apache 2.0	Installed	
Floodlight	Apache 2.0	Linked	
Thrift	Apache 2.0	Linked with Cassandra	
Django	BSD	Linked with BigCon	
Django Toolbox	BSD	Linked with BigCon	
jQuery	Dual license: MIT or GPL	Linked with BigCon	
Python	PSF	Linked BigCon, BigCLI, statd, syncd, lots of other scripts	
Python PeriodicTimer	PSF	Linked with statd	
Java SE Runtime	Oracle Binary Code License	Linked with Floodlight, Cassandra	

SLF4J	MIT	Linked with Floodlight	
EasyMock	Apache 2.0	Linked with Floodlight	
log4j	Apache 2.0	Linked with Floodlight	
Jackson	Apache 2.0	Linked with Floodlight	
JSON.lua	Creative Commons	Installed	
Logback	Eclipse 1.0/LGPL 2.1	Linked with Floodlight	
Code Generation Library	Apache 2.0	Linked with Floodlight	
args4j	MIT	Linked with Floodlight	
concurrentlinkedhashmap	Apache 2.0	Linked with Floodlight	
jython	Python Software Foundation License Version 2	Linked with Floodlight	
Netty	Apache 2.0	Linked with Floodlight	
Restlet	Apache 2.0/LGPL 2.1/LGPL 3.0/CDDL 1.0/EPL 1.0	Linked with Floodlight	
Simple Web Framework	Apache 2.0	Linked with Floodlight	
Mininet	BSD	Distributed with Controller VM	
Open vSwitch	Apache 2.0	Distributed with Controller VM	
dom4j	BSD	Linked with Floodlight	
vijava	BSD	Linked with Floodlight	
Ubuntu Linux	Various	Distributed with Controller VM	
Google Guava Library	Apache 2.0	Linked with Floodlight	
Apache HTTP Components (httpcore, httpclient)	Apache 2.0	Linked with Floodlight	
Google Json.simple Library	Apache 2.0	Linked with Floodlight	
junit	Eclipse 1.0	Linked with Floodlight (Unit Test Only)	
hamcrest	BSD	Linked with Floodlight (Unit Test Only)	

Big Switch Controller (BSC)

Open Source Component	License	How used with internal component	Developer Owner
Floodlight	Apache 2.0	Linked	
Cassandra	Apache 2.0	Linked with Floodlight, BigCon	
Thrift	Apache 2.0	Linked with Cassandra	
Django	BSD	Linked with BigCon	
Django Toolbox	BSD	Linked with BigCon	
Django Cassandra Backend	Apache 2.0	Linked with BigCon	
Google https_wrapper.py	Apache 2.0	Linked with syncd	
jQuery	Dual license: MIT or GPL	Linked with BigCon	
Python	PSF	Linked BigCon, BigCLI, statd, syncd, lots of other scripts	
Python PeriodicTimer	PSF	Linked with statd	
Java SE Runtime	Oracle Binary Code License	Linked with Floodlight, Cassandra	

SLF4J	MIT	Linked with Floodlight	
EasyMock	Apache 2.0	Linked with Floodlight	
log4j	Apache 2.0	Linked with Floodlight	
Jackson	Apache 2.0	Linked with Floodlight	
Logback	Eclipse 1.0/LGPL 2.1	Linked with Floodlight	
Code Generation Library	Apache 2.0	Linked with Floodlight	
args4j	MIT	Linked with Floodlight	
concurrentlinkedhashmap	Apache 2.0	Linked with Floodlight	
jython	Python Software Foundation License Version 2	Linked with Floodlight	
Netty	Apache 2.0	Linked with Floodlight	
Restlet	Apache 2.0/LGPL 2.1/LGPL 3.0/CDDL 1.0/EPL 1.0	Linked with Floodlight	
Simple Web Framework	Apache 2.0	Linked with Floodlight	
Mininet	BSD	Distributed with Controller VM	
Open vSwitch	Apache 2.0	Distributed with Controller VM	
dom4j	BSD	Linked with Floodlight	
vijava	BSD	Linked with Floodlight	
Ubuntu Linux	Various	Distributed with Controller VM	
Google Guava Library	Apache 2.0	Linked with Floodlight	
Apache HTTP Components (httpcore, httpclient)	Apache 2.0	Linked with Floodlight	
Google Json.simple Library	Apache 2.0	Linked with Floodlight	
junit	Eclipse 1.0	Linked with Floodlight (Unit Test Only)	
hamcrest	BSD	Linked with Floodlight (Unit Test Only)	
RRD4J	Apache 2.0	Linked with Floodlight (reading/writing to RRD files) Online maven repo	

Big Monitoring Fabric

The same open source dependencies as the Big Switch Controller.

Switchlight For Broadcom

Open Source Component	License	Where It's Used In Switch Software	Developer Owner
Busybox	GPLv2	Hardware Indigo distributions	
Dropbear	MIT style	Hardware Indigo distributions	
Scapy	GPLv2	OFTTest	
mtduutils	GPLv2	Netgear Indigo distributions	
u-boot	GPLv2 or later	Hardware Indigo distributions	
Indigo-1 hardware binaries	Indigo License	Hardware Indigo distributions	

OpenFlow Reference Implementation, non-datapath	OpenFlow License	Indigo Distributions	
OFTTest	OpenFlow License but 1.0 currently uses Scapy which is GPLv2	Standalone	
OpenFlow Reference Implementation, datapath	GPLv2	Indigo Distributions	
Indigo-2 Architecture API header files	Apache 2.0	Standalone; Indigo-2 Linux Reference Implementation, Argon, Helium, Hardware Indigo distributions	
LoxiGen	Apache 2.0	Standalone	
loci	Apache 2.0	Standalone; Indigo-2.0 implementations including Argon, Helium, Hardware Indigo distributions	Ric Lane
locitest	Apache 2.0	Standalone; Indigo-2.0 implementations including Argon, Helium, Hardware Indigo distributions	RichLane
Indigo-2 Linux Reference Implementation	Apache 2.0	Standalone; components in Argon, Helium, Hardware Indigo distributions	