# A Study on Opendaylight and its Architecture

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**Abstract:** *OpenDaylight (ODL) is collaborative project under the Linux Foundation, provides an open-source, modular, and flexible SDN and Network Function Visualization (NFV). ODL supports a layered architecture. The southbound interface to ODL ensures that networking technologies and hardware from diverse vendors can be leveraged using ODL. The northbound interface provides APIs for end user and other technologies such as OpenStak. This report captures detail description of ODL architecture in. simplified way. In ODL north bound APIs contain topology manager, host tracker, flow programmer, static routing, and so on. In southbound, multiple protocols are supported as plugins, e.g. OpenFlow 1.0, OpenFlow 1.3, BGP-LS and SAL (Service Abstraction Layer) figures out how to fulfill the requested service irrespective of the underlying protocol used between the controller and the network devices.*

**Keywords:** OpenDaylight, SDN, OpenStak, OpenFlow, SAL.

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