

# OpenDaylight Toolkit Proposal

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## Name

OpenDaylight Toolkit

## Repo Name

toolkit

## Description

One of the consistent feedback we received from developers was the complexity in developing apps for OpenDaylight. App developers come from various backgrounds with varied expertise levels and may not have the same skillset nor motivation as an OpenDaylight platform developer. Therefore, we need a lower barrier of entry for developers so that they are empowered and motivated to invest time in developing apps on OpenDaylight.

The word "apps" can represent both true applications that makes use of the existing OpenDaylight infrastructure bundles, development of these infrastructure components, and more. With some great feedback and input from the community, few of us have come up with a Maven Archetypes-based "app template solution" which enables the developers to quickly get started (< 1 minute) and build their first hello world OpenDaylight application end to end.

Primer to Maven Archetypes - <https://maven.apache.org/guides/introduction/introduction-to-archetypes.html>

Since OpenDaylight platform developers have the best insight into the project, if we write these archetypes for various scenarios, then we will have a rich set of templates readily available. Developers can simply choose from a catalog of these templates and can develop any kind of complex apps in a matter of hours, not weeks. Developers can also publish their own templates to the public template library.

The major objective of this project is to be a repository of these archetype templates which will host a rich template catalog addressing various scenarios. With a rich catalog of archetypes, application development on OpenDaylight will become a breeze.

## Scope

Scope of the OpenDaylight Toolkit project includes the following:

- Repository of Archetypes for various use-cases

The use-cases may include app development, infrastructure component development, southbound plugin development, Custom distribution, user interface, northbound APIs, apps using northbound REST APIs, etc.

- Provide the Archetypes catalog for OpenDaylight
- In addition to the code and related resources, these Archetype templates can also include necessary development toolkits such as eclipse launchers, debug helpers, etc.

## Resources Committed (developers committed to working)

- Madhu Venugopal ([mavenugo@gmail.com](mailto:mavenugo@gmail.com))
- Colin Dixon ([colin@colindixon.com](mailto:colin@colindixon.com))
- Giovanni Meo ([gmeo@cisco.com](mailto:gmeo@cisco.com))
- Andrew Kim ([h.andrew.kim@gmail.com](mailto:h.andrew.kim@gmail.com))
- Lakshmi Balasubramanya ([violinlakshmi@gmail.com](mailto:violinlakshmi@gmail.com))
- SDN Hub Folks (\*Will add names soon)

## Initial Committers

- Madhu Venugopal ([mavenugo@gmail.com](mailto:mavenugo@gmail.com))
- Colin Dixon ([colin@colindixon.com](mailto:colin@colindixon.com))
- Giovanni Meo ([gmeo@cisco.com](mailto:gmeo@cisco.com))
- Andrew Kim ([h.andrew.kim@gmail.com](mailto:h.andrew.kim@gmail.com))
- Lakshmi Balasubramanya ([violinlakshmi@gmail.com](mailto:violinlakshmi@gmail.com))

## Vendor Neutral

Completely Vendor agnostic.

## Meets Board Policy (including IPR)

Yes. Most/all of the code is written from scratch & it meets Board Policy.