Welcome to Genius

Introduction

Genius project provides Generic Network Interfaces, Utilities & Services. Any ODL application can use these to achieve interference-free co-existence with other applications using Genius. In the first phase (ODL-Boron time frame), Genius would provide following modules --

- Modules providing a common view of Network interfaces for different services
  - **Interface (logical port) Manager**
    - Allows bindings/registration of multiple services to logical ports/interfaces
    - Ability to plugin different types of southbound protocol renderers.
  - **Overlay Tunnel Manager**
    - Creates and maintains overlay tunnels between configured TEP's.

- Modules providing commonly used functions as shared services to avoid duplication of code and waste of resources.
  - **Aliveness Monitor**
    - Provides tunnel/next-hop aliveness monitoring services
  - **ID Manager**
    - Generates persistent unique integer IDs
  - **MD-SAL Utils**
    - Provides common generic APIs for interaction with MD-SAL

Documentation

- Please head over to our official documentation to [Genius Overview](#).

Getting Started

Getting Started for Users

[Genius User Guide](#)

For genius overview, please refer documentation section.

Getting Started for Developers

[Genius Design doc](#)

Committers typically do not review changes with build failures; it is the Gerrit Owner's responsibility to get them to build. If you're facing build issues you don't know how to solve, email the app-dev list asking for help (don't just wait and expect committers to notice your proposed change and help you fix its build).

Feel free to email the app-dev list after 1 week of no movement on a (green ticked build passing) Gerrit.

Getting Started for Committers

We do not "self merge" our own changes, but add other committers as reviewers. The first reviewing committer will +1, the second reviewing committer will +2. Any other committers can merge proposed changes with at least x2 +1 from contributors.

The one exception to the rule is that we allow self merging critical changes required to unblock broken builds.

If you've been added as a Reviewer to a change you don't feel comfortable reviewing, or don't anticipate to have the time to review within say 1 week, then you may want to remove yourself from the review, ideally with a short comment, to signal that to the owner, so that he can find others willing to review (or make changes to significantly simplify or further extensively document and re-add), instead of "doing nothing" and letting reviews "linger" for too long with no action.

Project Facts

- **Project Creation Date**: March 24, 2016
- **Lifecycle Status**: Incubation
- **Type**: Protocol
- **Primary Contact**: Hema Gopalakrishnan
- **Project Lead**: Hema Gopalakrishnan
- **Committers**:
  - Hema Gopalakrishnan <hema.gopalakrishnan@ericsson.com>
  - Faseela <k.faseela@gmail.com>
- **Emeritus Committers**:
  - @Vivek Srivatsa <vivek.v.srivastava@ericsson.com>
  - @Vishal Thapar <vthapar@redhat.com>
  - @Sam Hague <shague@redhat.com>
  - @David Suarez Fuentes <david.suarez.fuentes@gmail.com>
  - @Michael Vorburger <vorburger@redhat.com>
  - @Andre Fredette <anfredette@gmail.com>
  - @Brady Allen Johnson <bjohnson@inocybe.ca>
  - @Sasidharan S <sasidharan.s.sambasivam@ericsson.com>
  - @Yi Y Yang <yi.y.yang@intel.com>

- **IRC**: freenode.net #opendaylight-genius
- **Mailing List**: app-dev@lists.opendaylight.org
- **Archives**: mailing list archives
- **Meetings**: See [Community Meetings](#)
- **Repository**: [git clone](https://git.opendaylight.org/gerrit/genius) [Genius Jenkins Silo](#)
- **Trello Board**: [Genius Trello Board](#)
- **Gerrit Patches**: code patches /reviews
- **Open Bugs**: Report Bug / Open Bugs
We aim to review all pending Gerrits which have passed Verify and have no merge conflicts and no -1/-2 (and only those) in the weekly meeting. We ignore pending Gerrits which are not Verify. (Here are those with -1/-2 reviews.)

We occasionally review the list of all pending very old Gerrits which may be should and can be abandoned (or need to poke people).

## Release Planning and Release Notes

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### Miscellaneous

- For additional design and testing documents please head over to [Genius:Documentation](#).
- Please head over to our official documentation to [Genius:Sharding evolution](#).
- Please head over to our official documentation to [App co-existence with Genius](#).

## Existing Code base

Genius project will leverage codebase from existing 'vpnservice' project available Opendaylight, to be specific following modules will be used.

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