# NetIDE

## Welcome to NetIDE

## Introduction

The NetIDE Network Engine enables portability and cooperation inside a single network by using a client/server multi-controller architecture. Separate "Client SDN Controllers" host the various SDN Applications with their access to the actual physical network abstracted and coordinated through a single "Server SDN Controller", in this instance OpenDaylight. This allows applications written for Ryu/Floodlight/Pyretic to execute on OpenDaylight managed infrastructure.

NetIDE Network Engine Architecture

The project also includes an IDE to allow application developers develop and test their applications, including a graphical editor to specify network topologies, a UI for deployment configurations, editors to specify network environments for simulation, as well as a supporting toolsuite (debuggers, profilers, model checkers)

The "Network Engine" is modular by design:

- An OpenDaylight plugin ("shim" in architecture diagram) sends/receives messages to/from subscribed SDN Client Controllers. This consumes the ODL Openflow Plugin
- An initial suite of SDN Client Controller "Backends": Floodlight, Ryu, Pyretic. Further controllers may be added over time as the engine is extensible.

### NetIDE Network Engine Architecture

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### Project Information

Check the user guide for each release.

Project Proposal

## Project Facts

Project Creation Date: June 28th, 2015

Lifecycle State: Incubation

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Mailing List:  netide-dev@lists. opendaylight.org
   *Archives:* mailing list archives

Meetings: See Community Meetings

Repository: git clone https://git. opendaylight.org/gerrit/netide

Jenkins: jenkins silo

Gerrit Patches: code patches /reviews

Bugs:

- open bugs

## Documentation

Getting Started for Users

Getting Started for Developers

# Requirements

## Release Planning

| Release | Release Plan | Release Notes | Release Review | Installation Guide | User Guide | Developer Guide |
|---------|-------------|---------------|----------------|--------------------|-----------|-----------------|
| Carbon | Release Plan | Release Notes | Release Review | Installation Guide | | |
| Boron | Release Plan | Release Notes | Release Review | Installation Guide | User Guide | Developer Guide |

# Release Notes

Release Notes