

NEMO

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Introduction

The North-Bound Interface (NBI), located between the controller and the applications/services, is essential to enable application innovations and to nourish the SDN ecosystem by abstracting the network capabilities/information and opening the abstract/logic network to applications.

To implement a novel NBI design, we can learn from the successful case of SQL (Structured Query Language), which simplified complicated data operation into a unified and intuitive way in the form of language. Applications do not define the underlying mechanism for data storage and data operation; Applications only describe the expectation on the data storage and operation and then get the results. As a data domain DSL (Domain Specific Language), SQL is simple and intuitive, and can be embedded in applications. So what we need for the network NBI is a set of "network domain SQL".

NEMO language is a DSL based for the abstraction of network models and conclusion of operation patterns. It provides NBI fashion in the form of language. Instead of tons of abstruse APIs, with limited number of key words and expressions, NEMO language enables network users/applications to describe their demands for network resources, services and logical operations in an intuitive way. And finally the NEMO language description can be explained and executed by a language engine.

Project Information

Project Proposal

Release	Release Plan	Release Notes	Release Review	Installation Guide	User Guide	Developer Guide
Beryllium	Release Plan	Release Notes	Release Review	Installation Guide	User Guide	Developer Guide
Boron	Release Plan					

Documentation

1. ONS 2016
 - [NEMO: Apply Intent for Service Level Network Programming](#)

Project Facts

Project Creation Date: May 8th, 2015

Lifecycle State: Incubation

Type: App

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IRC: [freenode.net](#) #opendaylight

Mailing List: [nemo-dev@lists.opendaylight.org](#)
Archives: [mailing list archives](#)

Meetings: See [Community Meetings](#)

Repository: git clone <https://git.opendaylight.org/gerrit/nemo>

Jenkins: [jenkins silo](#)

Gerrit Patches: [code patches /reviews](#)

Bugs:

- [open bugs](#)

2. ONF MWD 2016
 - [Apply Intent for Service Level Network Programming](#)
3. White-paper
 - [Intent_NBI_for_Software_Defined_Networking](#)
4. HNC Summit 2015
 - [NEMO-Intent NBI](#)
5. ODL Summit Design Forum 2015
 - [NEMO-Intent Programming Language](#)
6. ECOOP Summit NetPL workshop 2015
 - [NEMO-an intent oriented network wide programming language](#)

Project source code

Helium version (for the demo at ONS 2015)

Introduction • NEMO Model:concept&&model • NEMO Implemtation Architecture • NEMO Yang Model	Tutorials • User Manual (...how to use NEMO?) • Reference Manual (...what are predefined?) • UI Specification (...how to use NEMO UI?) • Target Environment && Tools
Release Planning • Beryllium:Release Plan • Beryllium:System Test • Beryllium:Installation Guide	Use Cases&&Demos • BoD demo • SFC demo • PoC Demo • Template Demo

List of all subpages

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NEMO:Carbon:Release Review	NEMO:Carbon:System Test	NEMO:Installation Guide
NEMO:Main	NEMO:NEMO editor	NEMO:Nitrogen:Release Plan
NEMO:Oxygen:Release Plan	NEMO:Reference Manual	NEMO:Release Plan
NEMO:Target Environment and Tools	NEMO:Tools	NEMO:Use Cases
NEMO>User Manual	NEMO:Virtual Networking PoC Demo	NEMO:Virtual Networking Template Demo
NEMO:Yang Model		

Requirements

Release Planning

Release Notes