



OpenDaylight has Oomph!

and more about useful tooling for ODL developers

\$ whoami

Michael [Vorburger.ch](https://www.vorburger.ch)
[@vorburger](https://twitter.com/vorburger) 



What questions
should I be
asking myself?

1. Why?

2. What?

3. How?

4.



5.



6. Q & A

1. Why?

GettingStarted: Ecl... x

https://wiki.opendaylight.org/view/Eclipse_Setup

- 1.1 Introduction
 - 1.1.1 Quick Start / Useful Tips
- 1.2 Installing Eclipse
 - 1.2.1 Automatically Avoiding Trailing Whitespace
 - 1.2.2 Automatically Using Spaces instead of Tabs
 - 1.2.3 Eclipse Maven Integration (m2e) version
- 1.3 Importing the Source Into Eclipse
- 1.4 Help - I still have Red X's! (i.e. Eclipse compile errors)
- 1.5 Debugging the Controller
 - 1.5.1 Attaching the Debugger to a Running ODL
 - 1.5.2 Debugging a Start Up Issue
- 1.6 Debugging Weird Errors
 - 1.6.1 Frequent gotchas
 - 1.6.2 Advantages
- 1.7 Alternative way without m2eclipse plugin - for CLI-fans
- 1.8 Import ordering
- 1.9 Integrating Eclipse with Gerrit and Git

Help - I still have Red X's! (i.e. Eclipse compile errors)

“Eclipse is no longer able to compile OpenDayLight. The reason is three maven plugins which are used by OpenDayLight but are not integrated into Eclipse: maven-plugin-plugin, karaf-maven-plugin and maven-antrun-plugin. This means you will always have Eclipse compile errors in the project (this could go to up to 100000 errors).

You can use Eclipse for editing easily but to compile the project you need to open a terminal window and do the compilation (...)”

Share Team Test
Download Debug Setup Maven
Preferences IDE Installer
Git Checkstyle Eclipse
Extensions FindBugs
Gerrit Plugins Build
M2E



And you just wanted to contribute your very first open source bug fix today, not get a black belt in IDE-ology!











2. What?

The screenshot shows a web browser window with the URL <https://www.eclipse.org/downloads/>. The page features the Eclipse logo and a navigation menu with links for GETTING STARTED, MEMBERS, PROJECTS, and MORE. A search bar is located in the top right corner. Below the navigation, there is a breadcrumb trail: HOME / DOWNLOADS. The main content area is titled "Eclipse Mars.2 (4.5.2) Release for Linux" and includes a dropdown menu for "Linux". The text encourages users to "Try the Eclipse Installer" and describes it as the easiest way to install and update the Eclipse Development Environment. It also provides download statistics: "Find out more" with a download icon, ~~1,661,661 Downloads~~, and **2,278,082 Downloads**. The page also offers options for "Linux" in "32 bit" and "64 bit" formats.



eclipseinstaller by Oomph

type filter text

-  **Eclipse IDE for Java Developers**
The essential tools for any Java developer, including a Java IDE, a Git client, XML Editor, Mylyn, Maven integration and WindowBuilder
-  **Eclipse IDE for Java EE Developers**
Tools for Java developers creating Java EE and Web applications, including a Java IDE, tools for Java EE, JPA, JSF, Mylyn, EGit and others.
-  **Eclipse IDE for C/C++ Developers**
An IDE for C/C++ developers with Mylyn integration.
-  **Eclipse IDE for JavaScript and Web Developers**
The essential tools for any JavaScript developer, including JavaScript language support, Git client, Mylyn and editors for JavaScript, HTML, CSS and XML.
-  **Eclipse IDE for PHP Developers**
The essential tools for any PHP developer, including PHP language support, Git client, Mylyn and editors for JavaScript, HTML, CSS and XML.
-  **Eclipse IDE for Eclipse Committers**
Package suited for development of Eclipse itself at Eclipse.org; based on the Eclipse Platform adding PDE, Git, Marketplace Client, source code and developer documentation.
-  **Eclipse DSL Tools**
The essential tools for Java and DSL developers, including a Java Xtend IDE, a DSL Framework (Xtext), a Git client, XML Editor, and Maven integration.
-  **Eclipse IDE for Java and Report Developers**
Java EE tools and BIRT reporting tool for Java developers to create Java EE and Web applications that also have reporting needs.

PRODUCT CATALOGS...

ADVANCED MODE...

BUNDLE POOLS...

ABOUT

EXIT





Eclipse Importer

Projects
Check the projects you want to provision, and for each choose its stream in the table column.

type filter text

- Xtext
- Xpand
- XSD
- Github Projects
 - <User>
 - FXDiagram
 - Javamm
 - Jbase
 - m2e-code-quality
 - openHAB
 - TLA+
 - Xpect
 - Xsemantics
- OpenDaylight.org**
 - aaa
 - alto
 - atrium
 - bgpcep
 - capwap
 - cardinal
 - centinel
 - controller
 - didm
 - dlux
 - docs
 - eclipse-setup

OpenDaylight.org

OpenDaylight is leading the transformation to Open Software Defined Networking (SDN). This catalog lists all projects at opendaylight.org that provide automated Eclipse workspace setup support.

Catalog	Project	Stream
OpenDaylight.org	yangtools	master
OpenDaylight.org	yangide	master
OpenDaylight.org	mdsal	master
OpenDaylight.org	lispflowmapping	master
OpenDaylight.org	odlparent	master
OpenDaylight.org	eclipse-setup	master
OpenDaylight.org	netconf	master
OpenDaylight.org	unimgr	master
OpenDaylight.org	ovsdb	master

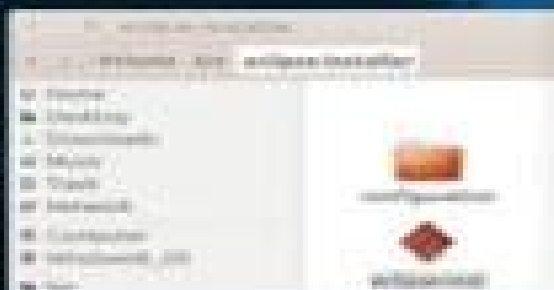
< Back Next > Cancel Finish



+10'

A hand is shown from the bottom right, with fingers touching a large, white-outlined button that says "Demo" in white text. The button is set against a blue background with a world map and network lines. Other smaller, similar buttons are scattered around the main one.

Demo



Freedom

OpenDaylight has Oomph, and you can set up an Eclipse-based development workspace for OpenDaylight projects by:

1. Downloading the Eclipse installer from <https://www.eclipse.org/downloads/> and starting it.
2. On the initial page, click on the Switch to advanced mode button in the top right.
3. On the Product page, select Eclipse IDE for Java Developers.
4. On the Projects page, click on the OpenDaylight.org Projects (or use the GitHub Projects to scroll down to the OpenDaylight.org Projects in the right hand corner for permanent filtering).
5. Double-click the project you want to install.
6. Choose your installation location, i.e. root install directory location.
7. Finish the wizard and let the environment be assembled, courtesy of Oomph.

This fully automates the manual steps currently described on https://wiki.opendaylight.org/view/GettingStarted:_Eclipse, in order for anyone to get easily started successfully hacking on <https://www.opendaylight.org> quickly, without having any red problem markers.

This is implemented used an Eclipse "Oomph" workspace set up model, see <http://www.eclipse.org/oomph/>.

By default, it will get done the setup of all projects you clicked into your new `$(installation.location)/omph`. If you already have OpenDaylight projects git clone with existing local work, then simply in the "variables" step of the Eclipse installer, click [x] Show all variables, and replace the "Get done location" variable which defaults to `"$(installation.location)/gs" @id removeUffigRepository"` by something like `"$(installation.location)/gs" @id removeUffigRepository" @id removeUffigRepository"`.

What's in it for you?



- git clone, import
- Working Set (dyn)
- MAGIC (m2e)
- 20+ Plugins
- 20+ Preferences
- YANG Editor
- Goodies

YANG IDE

- Builder
- Folding
- Validation
- Doc Hover
- Formatting
- Highlighting
- Code Completion
- Comment Toggle
- Navigation (F3)
- Templates
- Outline

<https://github.com/xored/yang-ide/wiki/Features>



HelloModule... AbstractHell... DependencyRe... AbstractFact... FtlTemplate... RuntimeRegis... *toaster.yang

```
70 }
71
72 container toaster {
73     presence
74         "Indicates the toaster service is available";
75     description
76         "Top-level container for all toaster database objects.";
77     leaf toasterManufacturer {
78         type DisplayString;
79         config false;
80         mandatory true;
81         description
82             "The name of the toaster's manufacturer. For instance,
83             Microsoft Toaster.";
84     }
85
86     leaf toasterModelNumber {
87         type DisplayString;
88         config false;
89         mandatory true;
90
```

- config
- default
- description
- if-feature
- mandatory
- must
- reference
- status
- type

Eclipse Tips

- Don't disable Auto Build
- No separate workspaces

- Red? Alt-F5 (mvn), not clean
- If too much auto. rebuilding?
Consider closing projects.
(Note: Open/Close is also available on Working Sets.)

FYI: ODL projects needed adjustments to previously done M2E lifecycle mapping, for correct in-IDE build. Your project's pom.xml may also need tweaks; raise it on dev list, or IRC/email me, if unclear.



Code Quality (IDE?)

Bug prevention (incl. security);
uniformity lowers friction

What do these have in common?

“Please change import statements to be alphabetically ordered”

“Move comment to previous line, as this will trigger a Sonar warning”

“java.util.Optional preferred over com.google.common.base.Optional”

“Field logger should be called LOG”

...

What do these have in common?

“Please change import statements to be alphabetically ordered”

“Move **These kind of code review comments on changes** *ing”*

“java. **proposed via Gerrit are all a waste of not just 1 but of *nal”***

“Field **2 people’s productive time!**

...

Developer should have already been informed about anything like this right there while typing it! (Same principle for post merge Sonar.)

Checkstyle & Sonar

- Eclipse Plugins for Checkstyle autom. installed!
- Even more importantly, autom. m2e pre-configured!!
- Sonar same (Eclipse plugin, config; manually activate)

- Efforts to drive reasonable sensible common shared set of Checkstyle rules in odl-parent for all of ODL.

```
2 * Copyright (c) 2015 Dell, Inc. and others. All rights reserved.
8
9 package org.opendaylight.netvirt.openstack.netvirt.sfc;
10
11 import org.opendaylight.yang.gen.v1.urn.cisco.params.xml.ns.yang.sfc.rsp.rev140701.rendered.service.pat
17
18 /**
19  * Open vSwitch OpenFlow 1.3 Networking Provider for Netvirt SFC
20  * @author Arun Yerra
21  */
22 public interface INetvirtSfcOF13Provider {
23
24     /**
25      * Method installs the OF rules corresponding to rules within ACL
26      * on a given Service Function Forwarder. DataObject which is identified by InstanceIdentifier.
27      *
28      * @param bridge - Service Function Forwarder
29      * @param acl - Access list includes rules that need to be installed in a SFF.
30      */
31     void addClassifierRules(Bridge bridge, Acl acl);
32     void addClassifierRules(Bridges bridges, Acl acl);
33
34     /**
```



'METHOD_DEF' should be separated from previous statement.
Press 'F2' for focus

8 errors, 11 warnings, 0 others

Description	Resource	Path
Errors (8 items)		
Warnings (11 items)		
'METHOD_DEF' should be separated from previous statement.	INetvirtSfcOF13Provider.java	/org.opendaylight.netvirt.openstack.net...

Format & Import (Ctrl-Shift-F & O)

Wrong lexicographical order for '...' import. Should be before '...' ?

Just **Source > Organize Imports**, it works “as expected”, because it’s correctly configured to “do the right thing” for ODL Checkstyle.

Source > Format is aligned as well.

Q: Auto Format & Organize Imports on Save?

A: Cool, but would require to clean everything, first..

Goodies (other)

- EGit & EGerrit
- Docker & Vagrant; Terminal
- MouseFeed ;)
- *FindBugs, PMD, EclEmma, YEdit, InfiniTest, **AnyEdit**, ...*



Docker Explorer

- dreamy_rosalind (sha256:9d69e5d9c65d67f6e6334584)
- drunk_cori (sha256:6ac5e098725c607cb09205eda017d)
- evil_brattain (sha256:bba7ad758da0dee0f93ebfff201e)
- focused_archimedes (sha256:469ff5133da69904c46d6)
- focused_nobel (hello-world:latest)
- furious_jennings (opendaylight/base-edition)
- gloomy_lumiere (sha256:567aaa39d58687185d049a06)
- happy_ride (sha256:93cb5268d55c98ae431519300ca1)
- high_chandrakhar (sha256:6ac5e098725c607cb09205)
- jovial_noyce (sha256:9d69e5d9c65d67f6e633458e78b)
- kickass_euclid (sha256:93cb5268d55c98ae431519300c)
- lobby_config (lobby_config_img)
- lonely_williams (hello-world:latest)
- mad_gates (sha256:469ff5133da69904c46d6c44196ce)
- ovs (mgkwill/openvswitch:2.3.2)**
 - Links
 - Ports
 - 0.0.0.0:6641 -> 6640 (tcp)
 - Volumes
- pedantic_archimedes (sha256:7fb8994b7a3c00b061b6)
- pedantic_bhaskara (sha256:2a8485b49de7716ad34b58)
- prickly_joliot (sha256:331f04763571650059574496da)
- prickly_stallman (sha256:a945c90868956a26fee47af2d)
- reverent_blackwell (vorburger/opendaylight-nexus-mi)
- sharp_hodgkin (sha256:6ac5e098725c607cb09205eda)
- silly_lalande (sha256:7fb8994b7a3c00b061b6afdfce69)
- small_mclintock (sha256:d8d15e529ba352071c777fc)
- stoic_elion (sha256:06ca093a72ef779f8ec4e4088370b)
- stupefied_dubinsky (sha256:b15e0f5d57fde88d253d)
- stupefied_euler (sha256:9d69e5d9c65d67f6e633458e)
- stupefied_wesocoff (sha256:2039abbf6acc5a46baa18f1)
- survival_config (survival_config_img)

Docker Images

feather (19/83 Images)

Id	Repo Tags	Created	Virtual Size
87cb9c9cbbd5	vorburger/opendaylight-nexus-mirror:latest	2016-05-26	747.2 MB
933fedfaecc7	vorburger/opendaylight-build-fedora:latest	2016-05-26	746.3 MB
2eef70b903ff	vorburger/yangide-jenkins	2016-05-20	736.2 MB
77bd697ef2c3	jenkins:latest	2016-05-12	710.1 MB
8b8d264107be	survival_config_img:latest	2016-05-04	655.3 MB
69bc032f28f4	creative_config_img:latest	2016-05-04	655.3 MB
f6920c1ee9a9	lobby_config_img:latest	2016-05-04	656.8 MB
cd46cedeb7f	bungee_config_img:latest	2016-05-04	642.7 MB
60a462cf929	docker/compose:1.7.0	2016-04-13	58.6 MB
93298beb2f0e	zxiiro/jjb-docker:latest	2016-04-07	390.2 MB
081ce13c85db	java:8	2016-04-05	642.7 MB

Docker Containers

feather (41 Containers)

Name	Image	Created	Command	Ports	Status
ovs	mgkwill/openvswitch:2.3.2	2016-06-16	/usr/bin/supervisord	0.0.0.0:6641->6640/tcp	Up 3 minutes
amazing_cori	sha256:054a29f01970768efb7a	2016-05-26	/bin/bash -c "/usr/share/nexus-*/bin/nexus"	0.0.0.0:8080->8080/tcp	Created
angry_pare	sha256:93cb5268d55c98ae4315	2016-05-26	bash		Exited (0) 3 weeks ago
awesome_wing	sha256:bba7ad758da0dee0f93e	2016-05-26	/bin/sh -c 'curl -sSL http://archive.apache.org/dist/maven/		Exited (2) 3 weeks ago
compassionate_stonebraker	sha256:469ff5133da69904c46d	2016-05-26	/usr/share/nexus-2.13.0-01/bin/nexus status		Exited (1) 3 weeks ago
determined_poincare	sha256:22daac7b0f03457b8104	2016-05-26	/bin/sh -c 'curl -sSL http://www.sonatype.org/downloads/		Exited (1) 3 weeks ago
dreamy_rosalind	sha256:9d69e5d9c65d67f6e63	2016-05-26	/bin/sh -c 'wget -q -O - https://raw.githubusercontent.com		Exited (1) 3 weeks ago
drunk_cori	sha256:6ac5e098725c607cb092	2016-05-26	bash -c /opt/sonatype/nexus/bin/nexus console		Exited (1) 3 weeks ago
evil_brattain	sha256:bba7ad758da0dee0f93e	2016-05-26	/bin/sh -c 'curl -sSL http://www-eu.apache.org/dist/maver		Exited (2) 3 weeks ago
focused_archimedes	sha256:469ff5133da69904c46d	2016-05-26	/usr/share/nexus-2.13.0-01/bin/nexus start	0.0.0.0:8080->8080/tcp	Created

Console | **Properties**

ovs (mgkwill/openvswitch:2.3.2)

Info	Property	Value
Inspect	Id	348d49fbc981
	Name	/ovs
	Created	2016-06-16
	State	
	ExitCode	0
	Finished at	2016-06-16T15:10
	Running	false
	Paused	false
	Pid	0
	Args	
	Driver	devicemapper
	ExecDriver	
	Config	
	AttachStderr	false
	AttachStdin	false
	AttachStdout	false
	Cmd	/usr/bin/supervis
	CpuSet	
	CpuShares	

Terminal

```

/ovs
2016-06-17T15:20:33Z|00020|jsonrpc|DBG|unix:/usr/local/var/run/openvswitch/db.sock: received
rue}, id=1
ovs-vswitchd stderr | 2016-06-17T15:20:33Z|00021|bridge|INFO|ovs-vswitchd (Open vSwitch) 2.3
ovs-vswitchd stderr | 2016-06-17T15:20:35Z|00022|poll_loop|DBG|wake up due to [POLLIN] on fd
penvswitch/db.sock) at lib/stream-fd-unix.c:124 (0% CPU usage)
ovs-vswitchd stderr | 2016-06-17T15:20:35Z|00023|jsonrpc|DBG|unix:/usr/local/var/run/openvsw
ification, method="update", params=[null, {"Manager": {"45527bde-c067-4f0b-a62f-5f053aaae39b":
["set", []], "target": "ptcp:6640", "other_config": [{"map", []}]}, "f33e55f4-7186-4aaa-9b1b-902f2da
mode": ["set", []], "target": "ptcp:6640", "other_config": [{"map", []}]}, "Open vSwitch": {"5d9829c
52e": {"old": {"manager_options": [{"uuid", "f33e55f4-7186-4aaa-9b1b-902f2da0b573"}], "new": {"stat
r_options": [{"uuid", "45527bde-c067-4f0b-a62f-5f053aaae39b"}], "bridges": ["set", []], "other_conf
[, []], "next_cfg": 0, "cur_cfg": 0}}}]
2016-06-17 15:20:35,548 INFO exited: configure-ovs (exit status 0; expected)
ovsdb-server stderr | 2016-06-17T15:20:42Z|00002|memory|INFO|14204 kB peak resident set size
2016-06-17T15:20:42Z|00003|memory|INFO|cells:24 monitors:1 sessions:1
  
```



3. HOW?



GETTING STARTED MEMBERS PROJECTS MORE ▾

HOME / PROJECTS / TOOLS PROJECT / OOMPH

Oomph

Overview

Downloads

Who's Involved

Developer Resources

Governance

Contact Us

The Oomph project provides tools based on extensible frameworks, packaged as fine-grained features that allow consumers to pick and choose. The basic building blocks include the following:

- An EMF model for manipulating Eclipse preferences.
- An EMF model for specifying predicate-based logical sets of projects.
- An EMF model for enforcing profiles of project-specific settings (driven by the predicates model).
- An EMF model for inducing dynamic working sets (driven by the predicates model).
- An EMF model for managing modular PDE target platforms (based on composable targetlets).
- An EMF model for describing IDE configurations.

Based on these building blocks Oomph initially provides the following tools:

- A tool for browsing the Eclipse preference structure.
- A tool for maintaining consistent project-specific settings across a large number of projects.
- A tool for creating dynamic working sets that update automatically as new projects are added to the workspace.

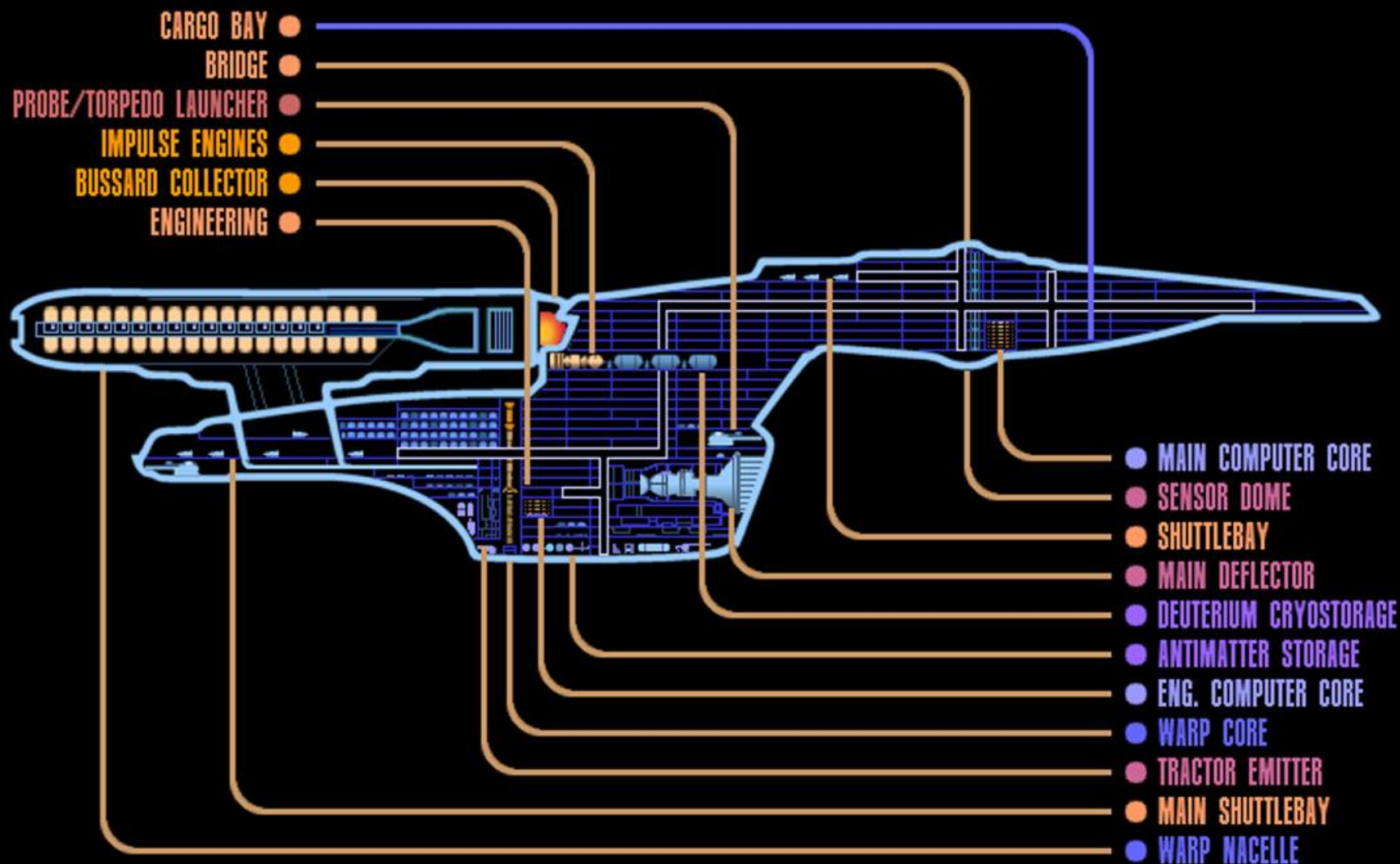


AMBASSADOR CLASS

U.S.S. ENTERPRISE NCC-1701-C

\\LCARS24\DATA\ENT-C.MSD

EDIT: F9



LENGTH: 478.5 M

BEAM: 293 M

HEIGHT: 116.4 M

MASS: 3,100,000 M.T.

LAUNCHED: 2332




ZOOM: F2

CLOSE: ESC

```
platform:/resource/org.opendaylight.eclipse.setup/org.opendaylight.projects.setup
├── OpenDaylight.org
│   ├── BrandingInfo
│   ├── Global Variables
│   └── User Preferences
│       ├── UserPreferences
│       ├── net.sf.eclipsesecs.core
│       ├── org.eclipse.compare
│       ├── org.eclipse.egerrit.core
│       ├── org.eclipse.egit.ui
│       ├── org.eclipse.jdt.core
│       ├── org.eclipse.jdt.ui
│       └── org.eclipse.m2e.core
│           ├── eclipse.m2.autoUpdateProjects = true
│           └── eclipse.m2.globalSettingsFile = ${git.clone.opendaylight.odlparent.location}/settings.xml
│               ├── eclipse.m2.WorkspacelifecycleMappingsLocation = ${workspace.location}/.metadata/.plugins/org.eclipse.
│               ├── org.eclipse.oomph.setup.ui
│               ├── org.eclipse.oomph.ui
│               ├── org.eclipse.ui
│               ├── org.eclipse.ui.ide
│               ├── org.eclipse.wst.xml.core
│               └── org.infinittest.eclipse
│           ├── JavaSE-1.8 = ${jre.location-1.8}
│           ├── Eclipse Ini -Xmx2048m
│           ├── Eclipse Ini -XX:MaxPermSize512m
│           ├── Eclipse Ini -Declipse.m2.stats.allow=true
│           ├── Resource Creation ${workspace.location|uri}/.metadata/.plugins/org.eclipse.jdt.ui/dialog_settings.xml
│           ├── Resource Creation ${workspace.location|uri}/.metadata/.plugins/org.eclipse.m2e.core/lifecycle-mapping-metadata.xml
│           ├── eclipse.target.platform (default: Neon)
│           └── P2 Director
│               └── ssh://${opendaylight.user.id}@git.opendaylight.org:29418/odlparent.git (${scope.project.stream.name})
```

Eclipse Installer

Projects

Check the projects you want to provision, and for each 

type filter text

- Eclipse Projects
- Github Projects
- OpenDaylight.org
 - aaa
 - alto
 - atrium
 - bgpcep
 - capwap
 - cardinal
 - centinel
 - controller
 - coretutorials
 - didm
 - dlux
 - docs
 - eclipse-setup**

with the flow

Hot Wheels™

-Pq Quick Build



1. `mvn [-o] clean install` 7:41 min
2. `mvn [-o] -Pq install` 1:16 min

Timings from ovsdb, as an example.

-Pq

`mvn -Pq install` skips:

- Tests compilation
- Unit tests running
- Karaf features testing
- Integration tests running
- Coverage instrumentation (Jacoco)
- FindBugs analysis
- Checkstyle analysis
- JavaDoc generation
- Source JAR building
- Maven site building
- Invoker, Enforcer

HOT WHEELS™



bundle:watch

bundle:watch *

Shift-Alt-X-M

-Pq -o -DaddInstallRepositoryPath=



-Pq = Quick. This ^^ is another Q..



OPEN
DAYLIGHT



Demo



What NeXT ?

- HOT
- WS Build Performance?
- Checkstyle: ++Adoption;
(incl. refinements, if needed)
- FindBugs? Null analysis?
- Bndtools? The OSGi IDE:
 - Instant bundle JAR builder
 - Semantic Versioning, in IDE...
 - Launchers for lightweight in-container FAST OSGi integration testing (Karaf?)
 - `bnd.bnd` \leftarrow `pom.xml` (mvn?)

bnd-based; ODL already uses, via maven-bundle-plugin.

Q & A

BACKUP SLIDES

Not used in the 30' presentation (too much)



OPEN
DAYLIGHT





Module Info

General

Name: toaster

Yang-version: 1

Namespace: http://netconfcer

Prefix: toast

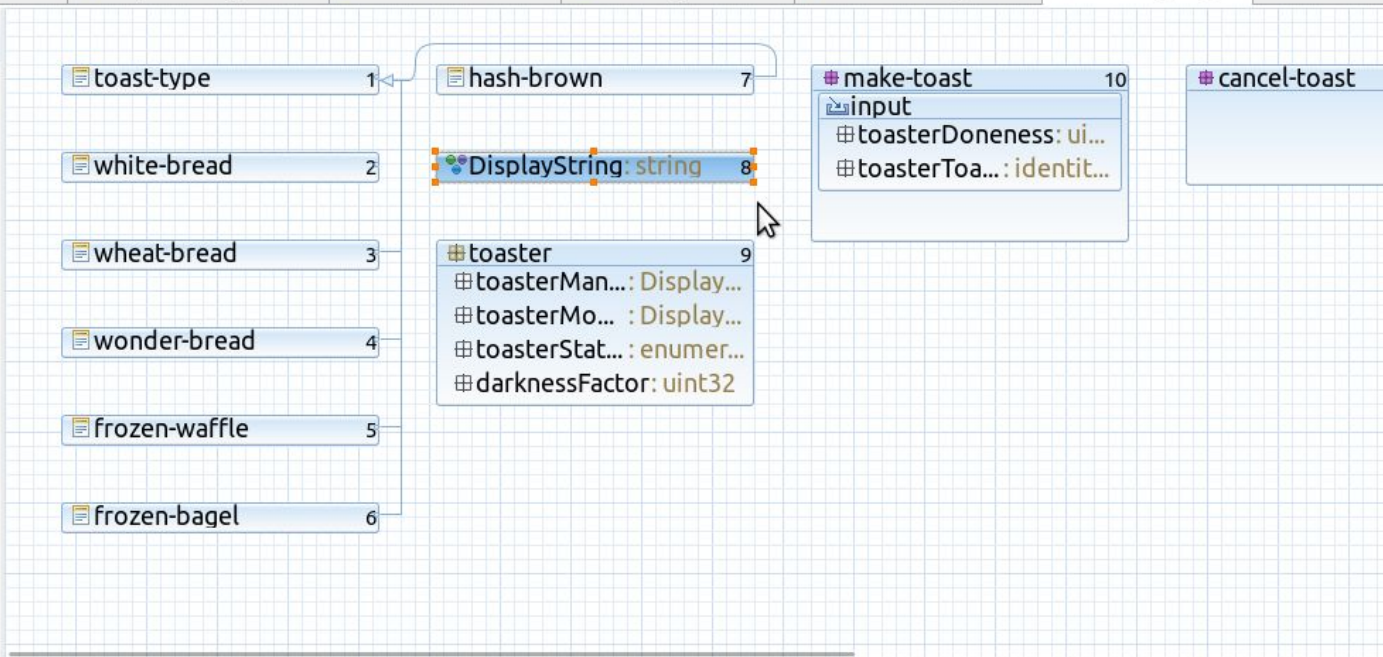
Revision

Name: 2009-11-20

Description: Toaster module

Reference:

Imports



Palette

- Select
- Marquee
- Container
 - grouping
 - container
 - rpc
 - input
 - output
 - notification
- Data node
 - leaf
 - anyxml
 - uses
 - deviation
 - extension
 - feature

Property	Value
default	
description	YANG version of the SMiv2 DisplayString TEXTUAL-CONVENTION.
reference	RFC 2579, section 2.
status	
units	



New Maven Project

Select an Archetype

Catalog: All Catalogs Configure...

Filter: org.opendaylight X

Group Id	Artifact Id	Version
org.opendaylight.controller	config-module-archetype	0.5.0-SNAPSHOT
org.opendaylight.controller	opendaylight-configfile-archetype	1.4.0-SNAPSHOT
org.opendaylight.controller	opendaylight-karaf-distro-archetype	1.3.0-SNAPSHOT
org.opendaylight.controller	opendaylight-karaf-features-archetype	1.3.0-SNAPSHOT
org.opendaylight.controller	opendaylight-startup-archetype	1.2.0-SNAPSHOT
org.opendaylight.controller.archetypes	odl-model-project	1.4.0-SNAPSHOT
org.opendaylight.dlux	dlux-app	0.4.0-SNAPSHOT

Archetype for new module managed by configuration subsystem
<https://nexus.opendaylight.org/content/repositories/opendaylight.snapshot>

Show the last version of Archetype only Include snapshot archetype Add Archetype...

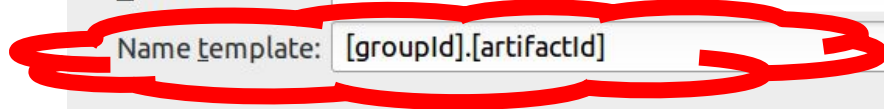
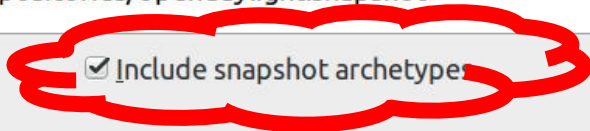
Advanced

Resolve Workspace projects

Profiles:

Name template: [groupId].[artifactId]

< Back Next > Cancel Finish



Sonar

- Checkstyle **VS** Sonar? Checks have some overlap (*inconsistencies*)
- Sonar does not run for Gerrit check builds (could & should it?)

- Sonar in-IDE, same config as on sonar.opendaylight.com:

```
63 public static class LogMessageOccurence {  
64  
65     public final String javaSourceFilePath; // relative to current project root  
66     public final int lineNumber;  
67     public final String message;  
68 }
```

Problems Search Console Progress Git Staging History Rebase Interactive Gerrit Dashboard (EGerrit) Terminal Synchronize SonarLint Issues SonarQube Servers

1 error, 0 warnings, 0 others

Description	Resource	Path	Location	Type
▼ Errors (1 item)				
• Move this trailing comment on the previous empty line.	LogMessageExtractorCheck.java	/org.opendaylight.yangtools.checkstyle-logging/src/main/java/org.opendaylight/yangtools/checkstyle	line 65	SonarLint Issue

Select Source

Select source for creating branch.

Local

- activateCheckstyle e6ba418 Checkstyle Import order as per original ODL convention on Wiki
- change/37623_jacoco 699b144 Fixed Eclipse IDE setup: m2e's no longer whines about jacoco
- change/39495_CheckstyleEnforce 792c3c9 Fix Checkstyle warnings, and make them errors for the future**
- checkstyleAllowedAbbreviationLength3 b3eed93 Refine Checkstyle rules: allowedAbbreviationLength 3 instead 1
- checkstyleEmptyLineSeparatorNoPackageToken dfe2b4b Allow license header to be glue to "package" statement
- checkstyleFeaturesTestFixedAndNowEnforced db2f098 Fix Checkstyle warnings, and make them errors for the future
- checkstyleGitIgnore a1db247 .gitignore .checkstyle files created by Checkstyle Eclipse plugin
- checkstyleImportOrderPurelyAlphabetical 5644f36 Checkstyle Import order as per original ODL convention on Wiki
- checkstyleJavaDoc 6c37d38 Checkstyle JavaDoc presence not enforced, but if present, check style
- checkstyleJavaDocConstructorAndGetterSetter 8136602 Refine Checkstyle rules: optional JavaDoc on c'str & getter/setter
- checkstyleJavaDocStyle 7f21d28 Add JavadocStyle & NonEmptyAtclauseDescription checkstyle modules
- checkstyleMavenPluginUpgrade216to217 06ba3ea Bump Checkstyle Maven plugin version from 2.16 to 2.17
- checkstyleMoveMethodName b32a188 Move Checkstyle module MethodName up in XML.
- checkstyleNewRulesFromYangtoolsCheckstyleLogging 034d1b2 Move Checkstyle rules not related to slf4 logging from yangtools
- checkstyleParameterSingleLetterOK 9721088 Refine Checkstyle rules: single letter parameter OK
- checkstylePlus3FromController b646667 Move 3 Checkstyle from controller/checkstyle to odparent
- checkstyleRmOdlLicenseDependency 117a2f2 Cleanup: Checkstyle does NOT require dependency to odl-license
- checkstyleRuntimeVersion 2bf167b Bump Checkstyle version from 6.2 to 6.16
- checkstyleSeparateRuntimeVsPluginVersionWithoutActuallyUpgradingEither 808ded6 Separate the Checkstyle Runtime Core VS. Maven plugin version
- fixM2IllegalArgumentMissingParameterForPluginExecutionFilterGroupId 3416a5a Fix for improved Eclipse IDE setup: m2e's no longer exp
- gitignore-factorypath 9c5fb59 .gitignore .factorypath created by m2e-apt
- goalPrefixKarafInsteadOfKarafPlugin 835d495 Improved Eclipse IDE experience: Fixed WARN from m2e in Error Log
- m2e-AllGerritsCombined 83c14f1 Fix for improved Eclipse IDE setup: m2e Checkstyle ConversionException
- m2eCheckstyleConversionException 3b8a0b3 Fix for improved Eclipse IDE setup: m2e Checkstyle ConversionException
- m2eMavenDependencyPluginUnpackLicenseIgnoreInsteadOfExecute 0ea8cb6 Improved Eclipse IDE experience: m2e's maven-dependency-plugin
- master e6ba418 Checkstyle Import order as per original ODL convention on Wiki
- paxExamUpgrade 12351a0 Upgrade PAX Exam from version 4.4.0 to 4.9.1
- paxExamUpgradeAvoidStatic b5bbf42 Fix use of BAD BAD BAD BAD static class initializer code block
- Q ae48d61 Introduce "mvn -Pq install" to just build JAR, but no tests, QA etc.
- revertJacksonUpgrade 2389a4f Revert "Upgrade Jackson 2.3.2 -> 2.7.4"
- rmCheckstylePluginManagedVersionOverride c7c837d removing <version> as previously declared in <pluginManagement>
- rmDuplicateGroupIdVersion 01c3cee removing duplicate <groupId>/<version> which are identical to <parent>

References

Remote Tracking

- gerrit/master 6170d32 Revert "Bump akka to 2.4.6"

Cancel OK

Fetch a change from Gerrit

Fetch a change from Gerrit into repository odparent

Please provide a change

URI:

Change:

Action to perform after fetch

Create a local branch Checkout new branch

Branch name:

Create and checkout a tag

Checkout FETCH_HEAD

Update FETCH_HEAD only

Run in background

Cancel Finish



Package Explorer **JUnit**

- Other Projects
- nic
 - integration/test
 - integration/packaging
 - integration/distribution
- integration
- aaa
- openflowplugin
- openflowjava
- controller [controller archetypesSelfTesting]
- docs
- ovsdb
- uningr
- netconf
- eclipse-setup [opendaylight-eclipse-setup master]
- odlparent [odlparent gitignore-factorypath]**
- lispflowmapping
- mdsal [mdsal build-helper-maven-plugin_add-source_src-main-yang]
- > yangide [yangide master]
- yangtools [yangtools gitignore-factorypath]
- checkstyle-eclipse
- root
- jboss-logging [jboss-logging-example demo]

Add JavadocStyle & NonEmptyAtclauseDescription checkstyle modules Activate Comment Markers Delete Revision Patch Sets 2/2

ID: 39406 NEW Subject: Add JavadocStyle & NonEmptyAtclauseDescription checkstyle modules

History	Messages	Details
Date	Author	Message
03:04 AM	jenkins-releg	Patch Set 2: Verified+1 Build Successful https://jenkins.opendaylight.org/releg/job/odlparent-distribution-check-boron/291/ : SUCCESS
02:50 AM	jenkins-releg	Patch Set 2: -Verified Build Started https://jenkins.opendaylight.org/releg/job/odlparent-distribution-check-boron/291/
02:50 AM	Sam Hague	Patch Set 2: test-distribution
May 25	Michael Vorburger	Patch Set 2: Build failure appears to be completely unrelated to this change: [ERROR] Failed to execute goal on project features-integration-index: Could not resolve dependencies for project org.opendaylight
May 25	Michael Vorburger	Patch Set 2: Code-Review+1

Patch Set 2: -Verified

Build Started <https://jenkins.opendaylight.org/releg/job/odlparent-distribution-check-boron/291/>

	File Path	Comments	Size
A	COMMIT_MSG -		+10/-0
M	odl_checks.xml - checkstyle/src/main/resources		+5/-0

Refresh Submit Abandon Rebase Download Cherry-Pick Reply ... Draft ...

OpenDaylight Total reviews: 27 All My Documentation

in AND (owner:self OR reviewer:self) Search

ID	Subject	Status	Owner	Project	Branch	Upd
39518	.gitignore .factorypath created by m2e-apt	NEW	Michael Vorburger	odlparent	master	11:5
39517	.gitignore .factorypath created by m2e-apt	NEW	Michael Vorburger	yangtools	master	11:5
39406	Add JavadocStyle & NonEmptyAtclauseDescription checkstyle modules	NEW	Michael Vorburger	odlparent	master	03:0
39495	Fix Checkstyle warnings, and make them errors for the future	NEW	Michael Vorburger	odlparent	master	May
39275	Add src/main/yang as source path in build-helper-maven-plugin	NEW	Michael Vorburger	mdsal	master	May
39416	Move Checkstyle rules not related to slf4 logging from yangtools	NEW	Michael Vorburger	odlparent	master	May
39277	Add src/main/yang as source path in build-helper-maven-plugin	NEW	Michael Vorburger	controller	master	May
39484	Fix broken Maven archetypes, and ensure their future automated testing	NEW	Michael Vorburger	controller	master (archetypesSelf	May
39482	Clean up pom.xml of archetypes projects (not archetypes content)	NEW	Michael Vorburger	controller	master	May
39175	Format startup archetype much more nicely, and clean up stuff	NEW	Michael Vorburger	controller	master	May
39422	Remove M2E lifecycle-mapping <ignore/> for maven-checkstyle-plugin	NEW	Michael Vorburger	controller	master	May
39417	Remove all not directly custom Logger check related modules declarations	NEW	Michael Vorburger	yangtools	master	May
39041	Fix bad generated path for generated sources	NEW	Michael Vorburger	openflowplugin	master	May
39403	Move Checkstyle module MethodName up in XML.	NEW	Michael Vorburger	odlparent	master (checkstyleMov	May
39410	New LogMessageExtractorCheck which writes out TXT report of all loggers	NEW	Michael Vorburger	yangtools	master	May
39396	Fix @Deprecated checkstyle.api.Check to new AbstractCheck	NEW	Michael Vorburger	yangtools	master	May
38876	Clean up code, incl. fix Checkstyle warnings (without real changes)	NEW	Michael Vorburger	yangtools	master	May
39132	Improve p2deploy scripts to support snapshot deploy	DRAFT	Thanh Ha	releg/builder	master (nexus-site-arch	May
39043	Remove M2E lifecycle-mapping <execute/> for yang-maven-plugin	NEW	Michael Vorburger	openflowplugin	master	May

Package Explorer JUnit

- Other Projects
- nic
 - integration/test
 - integration/packaging
 - integration/distribution
- integration
- aaa
- openflowplugin
- openflowjava
- controller [controller archetypesSelfTesting]
- docs
- ovsdb
- uningr
- netconf
- eclipse-setup [opendaylight-eclipse-setup master]
- odlparent [odlparent gitignore-factorypath]**
- lispflowmapping
- mdsal [mdsal build-helper-maven-plugin_add-source_src-main-yang]
- > yangide [yangide master]
- yangtools [yangtools gitignore-factorypath]
- checkstyle-eclipse
- root
- jboss-logging [jboss-logging-example demo]

Add JavadocStyle & NonEmptyAtclauseDescription checkstyle modules

ID: 39406 NEW Subject: Add JavadocStyle & NonEmptyAtclauseDescription checkstyle modules

Activate Comment Markers Delete Revision Patch Sets 2/2

History	Messages	Details
Date	Author	Message
03:04 AM	jenkins-releng	Patch Set 2: Verified+1 Build Successful https://jenkins.opendaylight.org/releng/job/odlparent-distribution-check-boron/291/ : SUCCESS
02:50 AM	jenkins-releng	Patch Set 2: -Verified Build Started https://jenkins.opendaylight.org/releng/job/odlparent-distribution-check-boron/291/
02:50 AM	Sam Hague	Patch Set 2: test-distribution
May 25	Michael Vorburger	Patch Set 2: Build failure appears to be completely unrelated to this change: [ERROR] Failed to execute goal on project features-integration-index: Could not resolve dependencies for project org.opendaylight
May 25	Michael Vorburger	Patch Set 2: Code-Review+1

Patch Set 2: -Verified

Build Started <https://jenkins.opendaylight.org/releng/job/odlparent-distribution-check-boron/291/>

Refresh Submit Abandon

	File Path	Comments	Size
A	COMMIT_MSG -		+10/-0
M	odl_checks.xml - checkstyle/src/main/resources		+5/-0

EGerrit Tip

You may write comments by entering text in the editor

Don't show this message again

OK

Problems Javadoc Search Console Progress Repository Explorer Properties

OpenDaylight Total reviews: 27

ID	Subject	Status	Author	Project	Branch	Time
39518	.gitignore .factorypath created by m2e-apt	NEW	Michael Vorburger	odlparent	master	11:5
39517	.gitignore .factorypath created by m2e-apt	NEW	Michael Vorburger	yangtools	master	11:5
39406	Add JavadocStyle & NonEmptyAtclauseDescription checkstyle modules	NEW	Michael Vorburger	odlparent	master	03:0
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39275	Add src/main/yang as source path in build-helper-maven-plugin	NEW	Michael Vorburger	mdsal	master	May
39416	Move Checkstyle rules not related to slf4 logging from yangtools	NEW	Michael Vorburger	odlparent	master	May
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39484	Fix broken Maven archetypes, and ensure their future automated testing	NEW	Michael Vorburger	controller	master (archetypesSelf	May
39482	Clean up pom.xml of archetypes projects (not archetypes content)	NEW	Michael Vorburger	controller	master	May
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39041	Fix bad generated path for generated sources	NEW	Michael Vorburger	openflowplugin	master	May
39403	Move Checkstyle module MethodName up in XML.	NEW	Michael Vorburger	odlparent	master (checkstyleMov	May
39410	New LogMessageExtractorCheck which writes out TXT report of all loggers	NEW	Michael Vorburger	yangtools	master	May
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39132	Improve p2deploy scripts to support snapshot deploy	DRAFT	Thanh Ha	releng/builder	master (nexus-site-arch	May
39043	Remove M2E lifecycle-mapping <execute/> for yang-maven-plugin	NEW	Michael Vorburger	openflowplugin	master	May



Package Explorer

- Other Projects [releng-builder master]
- aaa
- openflowplugin
- openflowjava
- controller [controller master]
- docs
- ovsdb
- unimgr
- netconf
- eclipse-setup [opendaylight-eclipse-setup master]
 - org.opendaylight.eclipse.setup [opendaylight-eclipse-setup master]
 - generator
 - projects
 - .project
 - LICENSE
 - org.opendaylight.eclipse.setup.setup
 - org.opendaylight.projects.setup**
 - README.adoc
 - org.opendaylight.eclipse.setup.generator [opendaylight-eclipse-setup master]
 - odlparent [odlparent checkstyleRuntimeVersion]
 - lispflowmapping
 - mdsal
 - yangide
 - yangtools [yangtools checkstyleRuntimeVersionUpgradeFrom6.2to6.16]
 - checkstyle-eclipse [eclipse-cs master]

checkstyle-logging.xml | org.opendaylight.odlparent.odlparent/pom.xml | CheckLoggingUtil.java | CheckstyleTest.java | org.opendaylight.projects.setup

- platform:/resource/org.opendaylight.eclipse.setup/org.opendaylight.projects.setup
 - OpenDaylight.org
 - BrandingInfo
 - Global Variables
 - User Preferences
 - UserPreferences
 - net.sf.eclipse.core
 - org.eclipse.compare
 - org.eclipse.egerrit.core
 - org.eclipse.egit.ui
 - org.eclipse.jdt.core
 - org.eclipse.jdt.ui
 - org.eclipse.m2e.core
 - eclipse.m2.autoUpdateProjects = true
 - eclipse.m2.globalSettingsFile = \${git.clone.opendaylight.odlparent.location}/settings.xml**
 - eclipse.m2.WorkspaceLifecycleMappingsLocation = \${workspace.location}/.metadata/.plugins/org.eclipse.m2e.core/lifecycle-mapping-metadata.xml
 - org.eclipse.oomph.setup.ui
 - org.eclipse.oomph.ui
 - org.eclipse.ui
 - org.eclipse.ui.ide
 - org.eclipse.wst.xml.core
 - org.infinittest.eclipse
 - JavaSE-1.8 = \${jre.location-1.8}
 - Eclipse Ini -Xmx2048m
 - Eclipse Ini -XX:MaxPermSize512m
 - Eclipse Ini -Declipse.m2.stats.allow=true
 - Resource Creation \${workspace.location/uri}/.metadata/.plugins/org.eclipse.jdt.ui/dialog_settings.xml
 - Resource Creation \${workspace.location/uri}/.metadata/.plugins/org.eclipse.m2e.core/lifecycle-mapping-metadata.xml
 - eclipse.target.platform (default: Neon)
 - P2 Director
 - ssh://\${opendaylight.user.id}@git.opendaylight.org:29418/odlparent_git (\${scope.project.stream.name})
 - Workspace
 - Resource Creation configuration:/settings/org.eclipse.ui.ide.prefs
 - Text Modify configuration:/config.ini
 - YANG IDE Target Platform
 - aaa
 - ssh://\${opendaylight.user.id}@git.opendaylight.org:29418/aaa.git (\${scope.project.stream.name})
 - Maven Import
 - Working Sets (aaa)
 - master
 - alto
 - atrium
 - bgpcep
 - capwap
 - cardinal
 - centinel

org.opendaylight.projects.setup

- http://repo1.maven.org/maven2/.m2e/connectors/m2eclipse-tycho/0.9.0/N/LATEST/
- https://infinittest.github.io
- http://download.eclipse.org/linuxtools/updates-docker-nightly/
- http://download.eclipse.org/modeling/emf/compare/updates/releases/latest
- http://download.eclipse.org/mylyn/snapshots/nightly/docs/
- http://restditor.sourceforge.net/eclipse
- http://download.eclipse.org/mylyn/releases/latest
- http://download.eclipse.org/technology/m2e/releases
- http://download.eclipse.org/graphiti/updates/0.12.2
- http://dadacoalition.org/yedit
- https://nexus.opendaylight.org/content/sites/p2repos/org.opendaylight.yangide/snapshot/
- http://download.jboss.org/jbosstools/updates/m2e-extensions/m2e-apt
- http://andrei.gmxhome.de/eclipse/
- http://download.sigasi.com/updates/mouseFeed

ssh://S{opendaylight.user.id}@git.opendaylight.org:294
Workspace
Resource Creation configuration:/settings/org.eclipse.u
Text Modify configuration:/config.ini
YANG IDE Target Platform
aaa
alto

Problems Javadoc Search Console Progress Repository Explorer

Property	Value
URL	http://download.sigasi.com/updates/mousefeed
Type	Combined

New Child
New Sibling
Undo Set Ctrl+Z
Redo Ctrl+Y
Cut
Copy
Paste
Delete
Find/Replace...
Validate
Live Validation
Control...
Run As
Debug As
Coverage As
Validate
Checkstyle
PMD
Team
Compare With
Replace With
Explore
Load Explore Repository

org.opendaylight.projects.setup

- org.eclipse.mylyn.gerrit.feature
- org.eclipse.mylyn.bugzilla_feature
- org.eclipse.mylyn.hudson
- org.eclipse.graphiti.feature
- org.dadacoalition.yedit.feature
- org.opendaylight.yangide.feature
- org.opendaylight.yangide.m2e.yang.feature
- org.jboss.tools.maven.apt.feature
- AnyEditTools
- http://updates.lemma.org
- http://eclipse-cs.sf.net/update
- http://m2e-code-quality.github.io/m2e-code-quality/site
- http://findbugs.cs.umd.edu/eclipse-daily/
- http://sourceforge.net/projects/pmd/files/pmd-eclipse/update-site/
- http://ifedorenko.github.com/m2e-extras/
- https://otto.takari.io/content/sites/m2e.extras/m2eclipse-buildhelper/0.15.0/N/0.15.0.201405280027/
- http://download.eclipse.org/egerrit/updates/integration
- http://download.eclipse.org/modeling/tmf.xtext/updates/composite/releases/
- http://repo1.maven.org/maven2/.m2e/connectors/m2eclipse-tycho/0.9.0/N/LATEST/
- https://infinittest.github.io
- http://download.eclipse.org/linuxtools/updates-docker-nightly/

Problems Javadoc Search Console Progress Repository Explorer *Properties Git Staging History

http://download.sigasi.com/updates/mousefeed

type filter text

- com.mousefeed
- com.mousefeed.feature.feature.group
- com.mousefeed.feature.feature.jar
- file:/home/heeckhau/git/mousefeed1/com.mousefeed.update-site/target/site/site.xml.MouseFeed 1.x.x
- file:/home/heeckhau/git/mousefeed2/com.mousefeed.update-site/target/site/site.xml.MouseFeed 2.x.x

Help

*org.opendaylight.projects.setup Record Preferences



```

projects.txt
# When adding projects here,
# and add a <project href="..

aaa
alto
atrium
bgpcep
capwap
cardinal
centinel
controller
didm
dlux
docs
faas
genius
groupbasedpolicy
integration/distribution
integration/packaging
integration/test
iotdm
l2switch
lacp
lispflowmapping
mdsal
natapp
nemo
netconf
netide
netvirt
neutron
next
nic
ocppugin
odlparent
of-config
ofextensions
openflowjava
openflowplugin
ovsdb
packetcable
sdninterfaceapp

```

```

ProjectsSetupGenerator.xtend
package org.opendaylight.eclipse.setup.generator

import com.google.common.base.Charsets

class ProjectsSetupGenerator {

    def generateProjectSetup(String projectName) '''
    <?xml version="1.0" encoding="UTF-8"?>
    <!-- This file is auto.generated by ProjectsSetupGenerator, please do not
    <setup:Project
        xmi:version="2.0"
        xmlns:xmi="http://www.omg.org/XMI"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xmlns:git="http://www.eclipse.org/oomph/setup/git/1.0"
        xmlns:maven="http://www.eclipse.org/oomph/setup/maven/1.0"
        xmlns:predicates="http://www.eclipse.org/oomph/predicates/1.0"
        xmlns:setup="http://www.eclipse.org/oomph/setup/1.0"
        xmlns:setup.workingsets="http://www.eclipse.org/oomph/setup/workingsets"
        xsi:schemaLocation="http://www.eclipse.org/oomph/setup/git/1.0 http://www.eclipse.org/oomph/setup/1.0 http://www.eclipse.org/oomph/setup/workingsets"
        name="<<projectName>>">
        <setupTask
            xsi:type="git:GitCloneTask"
            id="git.clone.opendaylight.<<validId(projectName)>>"
            remoteURI="ssh://<<opendaylight.user.id>>@git.opendaylight.org:29418/<<projectName>>"
            location="<<installation.location/git/>><<projectName>>"
            <description>git clone git.opendaylight.org:29418/<<projectName>></description>
        </setupTask>
        <setupTask
            xsi:type="maven:MavenImportTask"
            id="import.maven"
            projectNameTemplate="[groupId].[artifactId]"
            <sourceLocator
                rootFolder="<<git.clone.opendaylight.>><<validId(projectName)>>.locateNestedProjects="true"/>
            </sourceLocator>
        </setupTask>
        <setupTask
            xsi:type="setup.workingsets:WorkingSetTask"
            <workingSet
                name="<<projectName>>"
                <predicate
                    xsi:type="predicates:LocationPredicate"
                    pattern="<<git.clone.opendaylight.>><<validId(projectName)>>.locateNestedProjects="true"/>
                </predicate>
            </workingSet>
        </setupTask>
        <stream name="master"/>
        <logicalProjectContainer
            xsi:type="setup:ProjectCatalog"
            href="..<<projectName>>/org.opendaylight.projects.setup/<<projectName>>"
        </logicalProjectContainer>
    </setup:Project>
    '''
}

```

```

aaa.setup
aaa.setup
<?xml version="1.0" encoding="UTF-8"?>
<!-- This file is auto.generated by ProjectsSetupGenerator, please do not
<setup:Project
    xmi:version="2.0"
    xmlns:xmi="http://www.omg.org/XMI"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:git="http://www.eclipse.org/oomph/setup/git/1.0"
    xmlns:maven="http://www.eclipse.org/oomph/setup/maven/1.0"
    xmlns:predicates="http://www.eclipse.org/oomph/predicates/1.0"
    xmlns:setup="http://www.eclipse.org/oomph/setup/1.0"
    xmlns:setup.workingsets="http://www.eclipse.org/oomph/setup/workingsets"
    xsi:schemaLocation="http://www.eclipse.org/oomph/setup/git/1.0 http://www.eclipse.org/oomph/setup/1.0 http://www.eclipse.org/oomph/setup/workingsets"
    name="aaa">
    <setupTask
        xsi:type="git:GitCloneTask"
        id="git.clone.opendaylight.aaa"
        remoteURI="ssh://<<opendaylight.user.id>>@git.opendaylight.org:29418/<<projectName>>"
        location="<<installation.location/git/>><<projectName>>"
        <description>git clone git.opendaylight.org:29418/<<projectName>></description>
    </setupTask>
    <setupTask
        xsi:type="maven:MavenImportTask"
        id="import.maven"
        projectNameTemplate="[groupId].[artifactId]"
        <sourceLocator
            rootFolder="<<git.clone.opendaylight.>><<validId(projectName)>>.locateNestedProjects="true"/>
        </sourceLocator>
    </setupTask>
    <setupTask
        xsi:type="setup.workingsets:WorkingSetTask"
        <workingSet
            name="aaa">
            <predicate
                xsi:type="predicates:LocationPredicate"
                pattern="<<git.clone.opendaylight.>><<validId(projectName)>>.locateNestedProjects="true"/>
            </predicate>
        </workingSet>
    </setupTask>
    <stream name="master"/>
    <logicalProjectContainer
        xsi:type="setup:ProjectCatalog"
        href="..<<projectName>>/org.opendaylight.projects.setup/<<projectName>>"
    </logicalProjectContainer>
</setup:Project>

```

Contribute!



Eclipse Setup Models project is FLOSS.
Like everything else in OpenDaylight.
Now more easily than ever before:
You can contribute too!



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Make it a reality.*

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KICKSTARTER
Thru November 26th

STAR TREK
RENEGADES

Visit us on
Facebook

HOT Status

VS JVM hot code replacement (HCR), with karaf -debug?

1. Limitations! Really only swaps method bodies.
2. WS vs. JAR out-of-sync

Others? See list on <https://github.com/vorburger/hotea> ..

IMHO, simple bundle classes reload is best.

OSGi is dynamic! (Theory VS Practice)

- OK simplistic hello world bundle with Activator
- OK? UnsupportedOperationException handleChangedClass
https://bugs.opendaylight.org/show_bug.cgi?id=2855
<https://git.opendaylight.org/gerrit/#/c/40514/>
- NOK DynamicMBeanWithInstance attributes ..
- NOK more TBD?

**HELP
WANTED!**

