

OSC Working Practices, Development Process, and Roadmap

- First you need a **LFID**
- Contributor License Agreement (CLA)
 - Corporate CLA: an enterprise CLA Manager will do the admin trick, but each person will be asked to confirm that they are part of the company CLA when performing their first contribution
 - Individual CLA: must individually sign the CLA
- Linux Foundation is utilizing EasyCLA to manage the CLA process

<https://docs.linuxfoundation.org/display/DOCS/Contribute+to+a+Gerrit+Project>

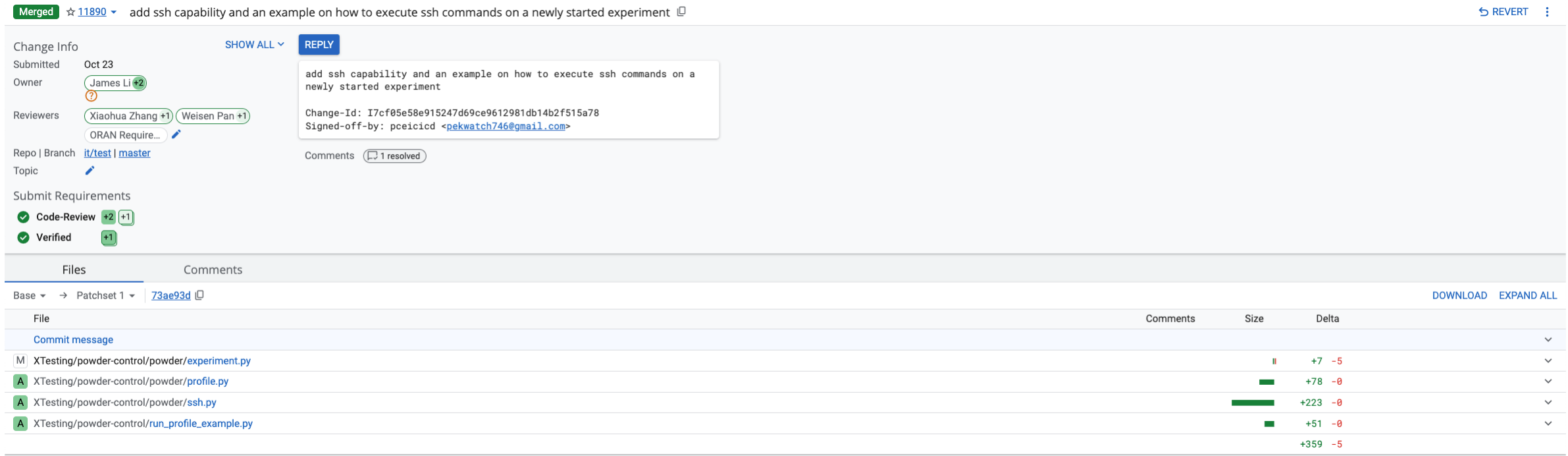
<https://docs.linuxfoundation.org/display/DOCS/CommunityBridge+EasyCLA>

- OSC code repositories are hosted by Linux Foundation using the Gerrit. Browse all repos here: <https://gerrit.o-ran-sc.org/r/admin/repos>
- Creation or archiving a repo needs a corresponding proposal to the OSC TOC for approval
- INFO.yaml file at the top level of a repo defines the key personnel for review/merge approval
- The initial INFO.yaml file content creation has to be approved by LF support team

```
---
project: 'Integration and Testing'
project_creation_date: '2019-05-21'
project_category: ''
lifecycle_state: 'Incubation'
project_lead: &it-test_ptl
  name: 'James Li'
  email: 'lijianyj@chinamobile.com'
primary_contact: *it-test_ptl
issue_tracking:
  type: 'jira'
  url: 'https://jira.o-ran-sc.org/projects/INT'
  key: 'INT'
mailing_list:
  type: 'groups.io'
  url: 'https://lists.o-ran-sc.org/g/main'
  tag: '<[it/test]>'
realtime_discussion:
  type: 'irc'
  server: 'freenode.net'
  channel: '#o-ran-sc'
```

```
meetings:
  - type: 'zoom'
    agenda: ''
    url: ''
    server: 'n/a'
    channel: 'n/a'
    repeats: 'weekly'
    time: ''
repositories:
  - 'it/test'
committers:
  - <<: *it-test_ptl
  - name: 'David Liu'
    email: 'david.liu@windriver.com'
    company: 'Wind River China Beijing Office.'
    id: 'dliu5'
    timezone: 'China/Beijing'
tsc:
  # yamllint disable rule:line-length
  approval: 'https://wiki.o-ran-sc.org/pages/viewpage.action?pageId=47748896#id-2021Q4(Oct,Nov,Dec)-20211020'
```

- A repository has to be checked out using HTTPS or SSH. Generate your corresponding credential/key through <https://gerrit.o-ran-sc.org/r/settings/>
- Code commit goes through standard git processes. Once a code review package is successfully generated Web UI can be used to add reviewer(s), comments, do patching as needed and finally get merged.



The screenshot shows a Gerrit code review interface. At the top, it indicates the patch is 'Merged' with 11890 stars. The title of the patch is 'add ssh capability and an example on how to execute ssh commands on a newly started experiment'. The change info section shows it was submitted on Oct 23 by James Li. Reviewers include Xiaohua Zhang and Weisen Pan. The patchset is 73ae93d. The file list shows changes to XTesting/powder-control/powder/experiment.py, profile.py, ssh.py, and run_profile_example.py.

File	Comments	Size	Delta
Commit message			
XTesting/powder-control/powder/experiment.py			+7 -5
XTesting/powder-control/powder/profile.py		■	+78 -0
XTesting/powder-control/powder/ssh.py		■	+223 -0
XTesting/powder-control/run_profile_example.py		■	+51 -0
			+359 -5

Individual OSC project may have their own rule(s), such as to meet unit test code coverage, etc.

Linux Foundation has its own CI/CD setup for each individual repository to invoke various test execution and build verification.

O-RAN Software Community "I" Release Revised - Sprint Calendar 2023

Mile Stones	Kick-off Review M0				Planning Review M1				Functionality Freeze M2				API Freeze M3				Code Freeze M4				Integration Review RC0		Sign Off Review RC1	Release				
	M0		M1		M2		M3		M4		RC0		RC1		Release													
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26		
Mon	3-Jul	10-Jul	17-Jul	24-Jul	31-Jul	7-Aug	14-Aug	21-Aug	28-Aug	4-Sep	11-Sep	18-Sep	25-Sep	2-Oct	9-Oct	16-Oct	23-Oct	30-Oct	6-Nov	13-Nov	20-Nov	27-Nov	4-Dec	11-Dec	18-Dec	25-Dec		
Fri	7-Jul	14-Jul	21-Jul	28-Jul	4-Aug	11-Aug	18-Aug	25-Aug	1-Sep	8-Sep	15-Sep	22-Sep	29-Sep	6-Oct	13-Oct	20-Oct	27-Oct	3-Nov	10-Nov	17-Nov	24-Nov	1-Dec	8-Dec	15-Dec	22-Dec	29-Dec		
Dev Sprints	Maintenance/Defect Release Dev					Maint. Release	No Activity	Dev Sprint 1				Dev Sprint 2 - Sprint 1 Demo				Dev Sprint 3 - Sprint 2 Demo				Dev Sprint 4 - Sprint 3 Demo				Sprint 4 Demo		Defect Management		No Activity
Test Sprints	Maintenance Test Release					Test Planning & Preparation of Test Cases						IST Sprint-1		IST Sprint-2			IST Sprint-3			IST Sprint-4		End 2 End Test		No Activity				
SW Req. Task Description	Epics Identified	User Stories/Tasks Identified & Review	Map Epics and US/Task	Sub Tasks Identified & Review	Sprint Planning and Design		Software and Project Documentation										Release Preparation		Release									
O-RAN Alliance	WG Input; Specification Freeze				WG Review									WG Review									O-RAN Demo		Documentation Review		O-RAN Hand-Off	

Release Checklist

Category	Checkpoint	Yes/No	Who	Comment / Evidence / How-To?
Operations	TSC Voting on the release approval.	Yes	TSC	TSC Meeting.
	Article on Release	No	Marketing Team	
Development	Completion of the committed features	Yes	Projects (PTL)	
	Moving the features that were not completed to next release (if any)	Yes	Projects (PTL)	
	Testing of each of the features	Yes	Projects (PTL)	
	Release tagging (release branching)	Yes*	Projects (PTL)	oransc-NO-hreleasebranch.txt
	Publishing of Artifacts	Yes	Projects (PTL)	O-RAN-SC-Artifacts-Staging.xlsx O-RAN-SC-Artifacts.xlsx
Documentation	Developer documentation for the features (if any)	Yes	Projects (PTL)	
	User documentation for the features (if any)	Yes	Projects (PTL)	
	Release notes documentation	Yes	Projects (PTL)	
	Release documentation for Blog/Article on Release (if reqd.)	NA	Marketing	
	Documentation update in Wiki	Yes	PM	https://wiki.o-ran-sc.org/display/ORAN Releases
	Documentation update in website	Yes	PM	https://o-ran-sc.org/ https://www.linuxfoundation.org/projects
	Branch doc project	Yes	Docs Project (PTL)	
License	License Scanning (Paid Service)	Yes	PM	
	Resolution of issues (if any) with license Scanning	Yes	Projects (PTL)	
	Dependency Scanning (nexus)	NA	Projects (PTL)	
	Resolution of issues (if any) with dependency scanning	NA	Projects (PTL)	
Security	LFX Security Scanning	Yes	RM	Security Check Dashboard
	Resolution of issues (if any) with Security Scanning	Yes	Projects (PTL)	

Request your access to the New Jersey lab

Please send your request to the RSAC co-chair @David Kinsey <david.kinsey@att.com>, with the following info.

Name
Affiliation
Email
Office Phone Number
OSC Lab resources that you will be accessing (if you need new resource, please specify the configuration)
SSH Public key
Works that you will be carrying out

What you will be receiving

- An OpenVPN credential to connect to the lab network
- SSH credentials for the requested resources

POWDER Testbed:
An umbrella
project/account
osc/osc_int is created for
community use.
Request access through
OSC project PTL

```
<rspec xmlns="http://www.geni.net/resources/rspec/3" xmlns:emulab="http://www.protogeni.net/resources/rspec/ext/ε
<node xmlns:emulab="http://www.protogeni.net/resources/rspec/ext/emulab/1" client_id="node-0" exclusive="true"
  <sliver_type name="raw-pc">
    <disk_image name="urn:publicid:IDN+emulab.net+image+emulab-ops//UBUNTU22-64-STD"/>
  </sliver_type>
  <emulab:vnode name="pc607" hardware_type="d820"/>
  <host name="node-0.osc-int-172924.osc.emulab.net" ipv4="155.98.38.227"/>
  <services>
    <login authentication="ssh-keys" hostname="pc607.emulab.net" port="22" username="osc_int"/>
    <login authentication="ssh-keys" hostname="pc607.emulab.net" port="22" username="jonzhang"/>
    <emulab:console server="tipserv6.emulab.net"/>
    <emulab:recovery available="true"/>
    <emulab:powercycle available="true"/>
    <emulab:imageable available="true"/>
  </services>
```

Meeting Name	Scheduled Time	Notes/Meeting Links
TOC	Thursdays 6am PST	https://zoom.us/j/7562808472
RSAC	Biweekly Tuesdays 6pm PST	https://zoom.us/j/9644759813
RSAC/SMO	Wednesdays 5am PST	Rotating every week with focus on RSAC or SMO https://zoom.us/j/95689855519
RICAPP/RICPLT	Biweekly Tuesdays 6am PST	https://zoom.us/j/9644759813
NonRTRIC/OAM/SI M/ONAP	Weekly Tuesdays 7am PST	https://us02web.zoom.us/j/89069708424?pwd=aGJOZm54eTUxd0FXR0VVCU1N0ejBrUT09
AIMLFW	Biweekly Tuesdays 5am PST	https://zoom.us/j/9644759813

List Name	Purpose
O-RAN-SC Main	For announcement only, mostly meeting reminders
discuss@	Technical community discussions. Drop your technical questions here, such as deployment, troubleshooting, instructions, etc. PTLs will closely monitor and respond in a timely manner
TOC@	For TOC use, such as repo creation/archive request, new meeting agenda proposal, etc.
Project Technical Leads	This is an internal discussion list intended for PTL use

- Aligned more closely with O-RAN WGs and MVP-C feature packages
- Enhanced external collaborations with other open source communities
- End-to-end call session with OSC components, and then full CI/CD/CT pipeline
- Lab interconnection

Wiki: <https://wiki.o-ran-sc.org>

JIRA: <https://jira.o-ran-sc.org>

Gerrit: <https://gerrit.o-ran-sc.org>

Documentation: <https://docs.o-ran-sc.org>

Thank You!