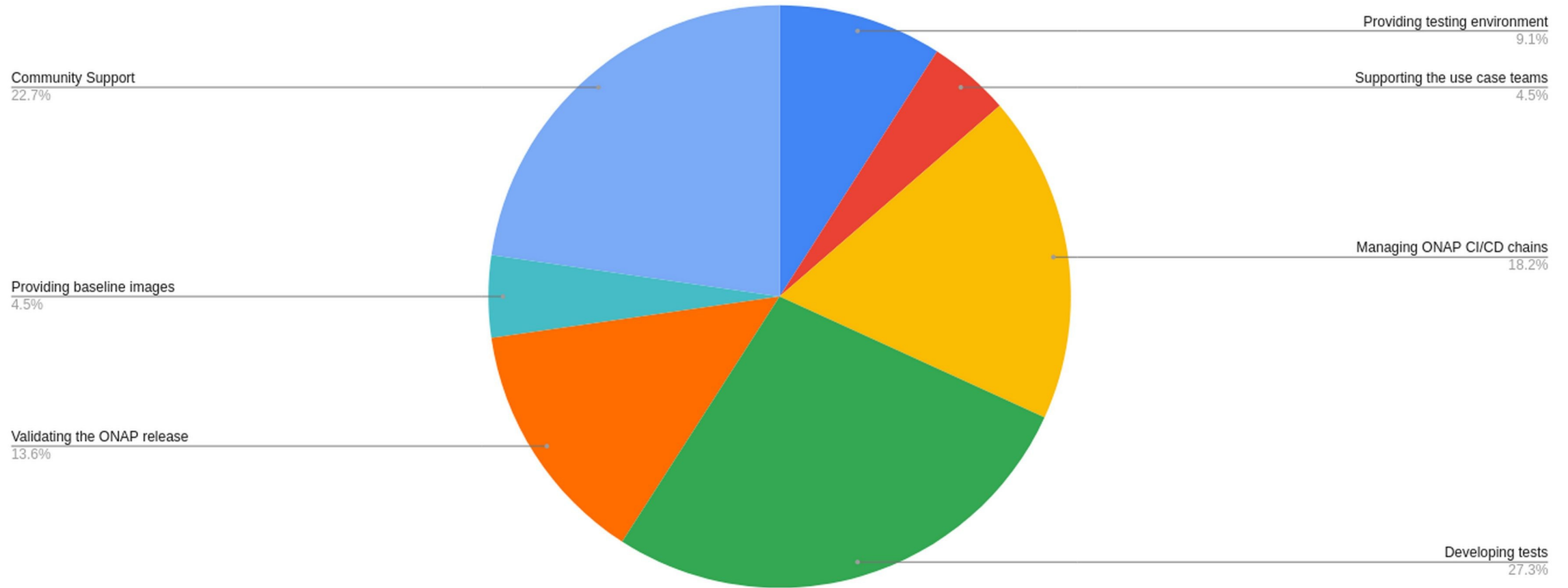




ONAP Integration
Lessons learned from Guilin & priorities for Honolulu
ONAP Integration Team

February , 2021

ONAP Integration team missions



<https://docs.onap.org/projects/onap-integration/en/latest/integration-missions.html>

ONAP Integration committer roadster



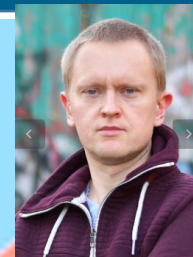
Catherine



Brian



Lukasz



Bartek



Lasse



Christophe



Morgan



Andreas



Krzysztof



Marcin



Michal



Thierry



Pawel



ONAP Integration team hall of Fame

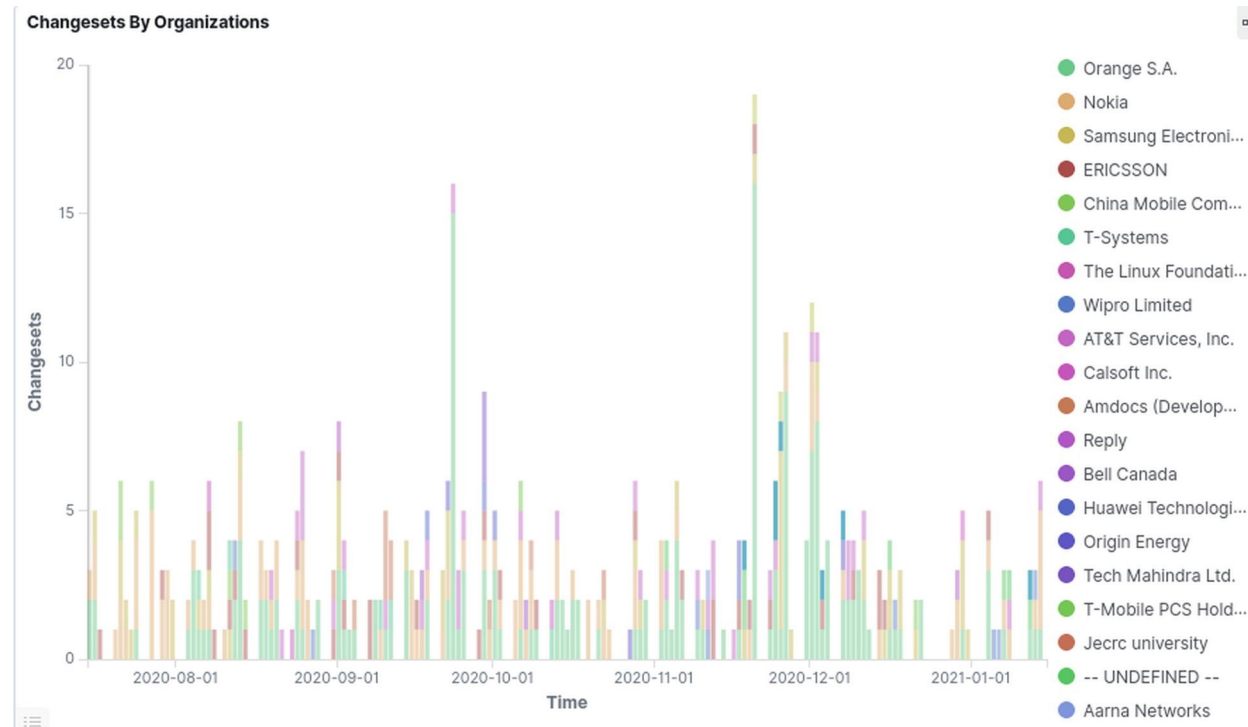


Big Thanks to
Daniel Rose and Marco Platania
We miss you already..

Last 6 months facts & figures

- 431 changesets
- 82 Changeset submitters
- 16 repositories
- Average Time to First Review : 2,2 days

Repository ↕	Changesets ↕	Submitters ↕
integration/csit	116	39
integration	92	29
testsuite	60	23
testsuite/pythonsdk-tests	59	12
integration/xtesting	47	7
integration/simulators/pnf-simulator	14	7
demo	12	5
integration/docker/onap-java11	8	2
integration/docker/onap-python	8	1
oparent	3	1



Src <https://insights.lfx.linuxfoundation.org> gerrit changeset filtered on integration ONAP repositories (gitlab.com not considered here)

Lab support Guilin

Questions ? contact : Morgan, Stephen Gooch

- Windriver lab cleaned
 - Performance audit done => reinstallation needed asap
 - SB-00 reinstalled by Adrzej (Nokia) - SB-00 mandatory for MDONS use case
 - All the other Integration chains deleted
 - Old local jenkins based CI deleted
- Creation of a new Staging lab on Azure + its associated CI chain
 - more than 20 access granted
 - Used for SO troubleshooting



Lab support Honolulu

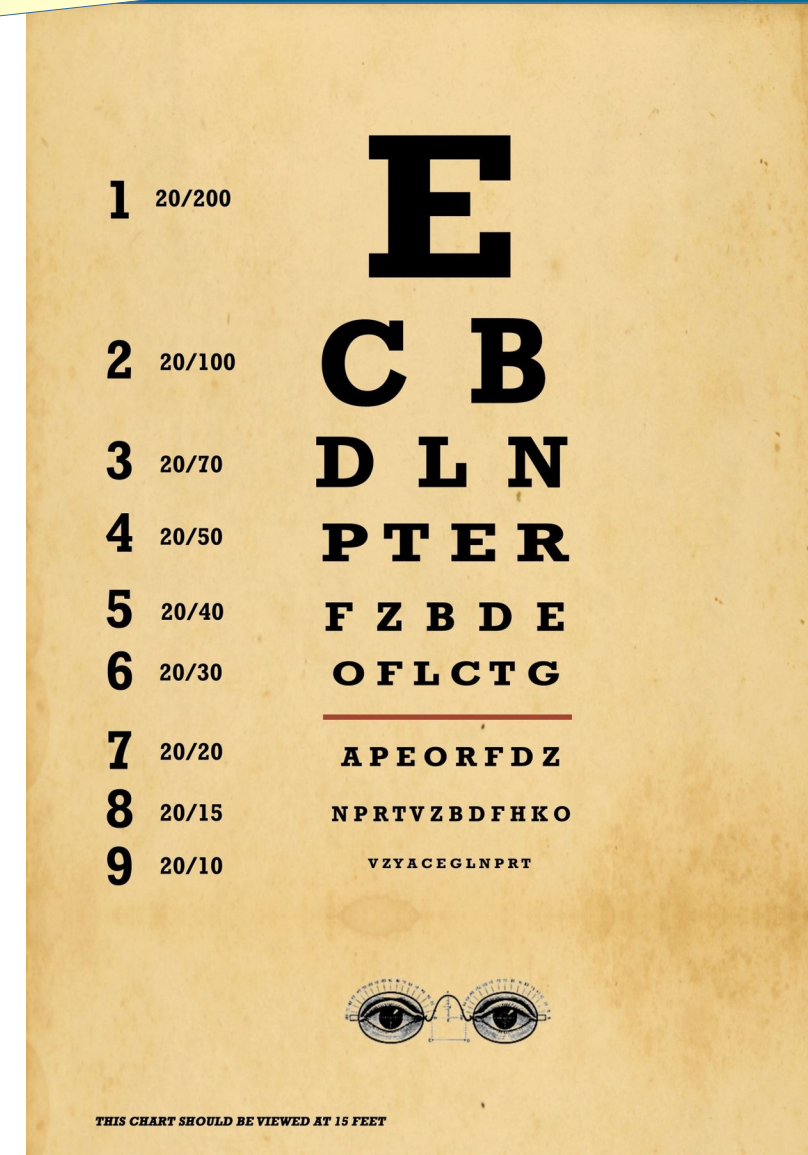
- Full Reinstallation of Windriver lab S1 2021
 - New Titanium version (cloud native)
- Create CI chains on new windriver
 - New integration chains
 - Chains for use cases ?



Testcases Guilin

Questions ? contact : Pawel, Krzysztof, Marcin, Morgan, Christophe, Andreas, Thierry, Bartek, Brian, Michal

- New healthcheck tests included in CI
 - Cmpv2
 - Ves-collector
- New smoke cases included in CI
 - Onap-tests deprecated and replaced by pythonsdk
 - basic_network
 - basic_vm
 - basic_cnf
- New security tests
 - Component versions recommended by SECCOM
- CDS test upstreamed



Testcases Honolulu

- Start integrating use case suites
 - MDONS
 - 5G use cases
- More pythonsdk tests
- Include CDS tests in CI/CD
- Include stability test in weekly chain
- Refactor of the testsuite (robot) pod
- Enhance version check
 - Add support for new components
 - Improve performance



Python SDK:

- introduced in Guilin to replace onaptests
- 18 developers from multiple companies work on development
- Modules covered : A&AI, CDS, Clamp, **Dmaap (New!)**, MSB (with k8s plugin), NBI, SDC, SDNC, SO, **VES (New!)**, VID
- Custom exceptions

Pythonsdk-tests:

- Creation of associated pythonsdk-test repo in ONAP
- Tests included in CI :
 - basic_vm
 - basic_network
 - basic_cnf
 - basic_cds
 - clearwater_ims
 - basic_onboard
- Automatic reporting



Pythonsdk Honolulu

Python SDK:

- More components:
 - OOF
 - Policy
 - ...?

Pythonsdk-tests

- More tests in CI:
 - basic_pnf
 - basic_clamp
 - more tests using macro flow
- Development of a wrapper to consumer docker simulators
- Development of an addon for stability testing



- Creation of a staging lab chain for Integration on azure
- Creation of weekly CI/CD chain (master and Guilin) for stability/resiliency/security/long duration tests



CI/CD Honolulu

- Enhanced Gating/Daily chains
- Consolidation of weekly chains
 - First test automated but some tests still manual (stability)
 - Add tests
- Create Use case chains (1 chain per use case)
- Recreate chains on new Windriver
- Create daily Honolulu
- Nokia is preparing internal daily Xtesting CI builds with IPV6 (dual stack) and plan to share results with community



- Massive cleanup of the CSIT JJB templates and setups (projects in maintenance mode, obsolete image versions being tested, etc.)
- Improved active CSITs (fix broken setup checks, reduce or remove excessive wait times)
- CSIT redesign (with Music project as PoC)
 - bring CSITs to their respective project repositories
 - new JJB templates to include CSIT in review verification and give feedback to the developers before merge



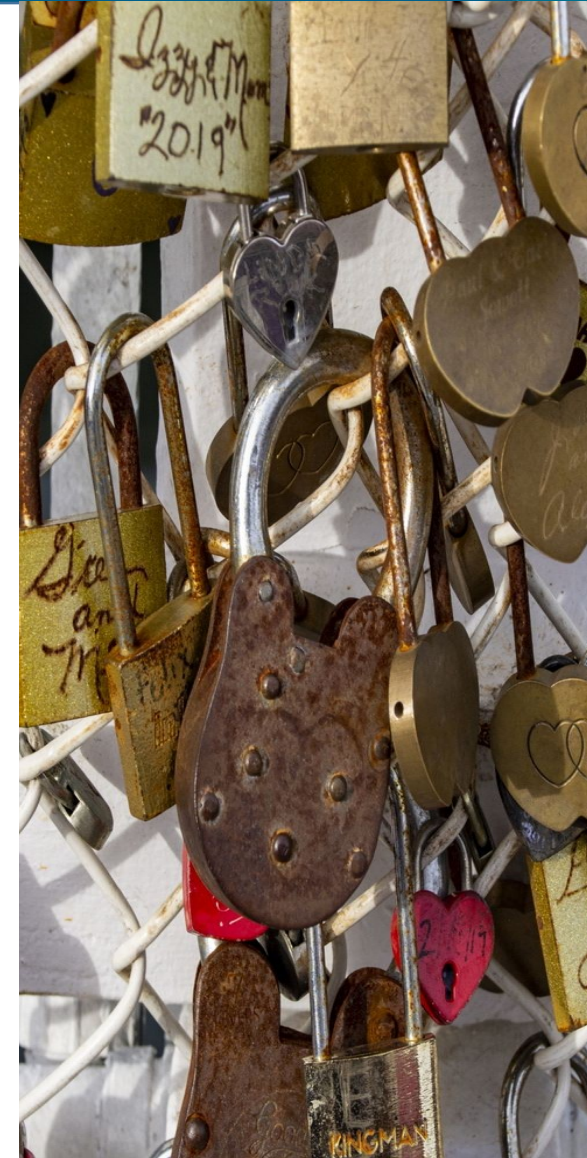
- Partial redesign of artifact and docker image versioning strategy to support CSIT redesign
- Finalize CSIT redesign
- Take CSIT redesign in use in active projects
 - CCSDK distribution project is the first showcase example
 - SDC and Policy projects are partially applying some of the redesign principles



Community & use case support Guilin

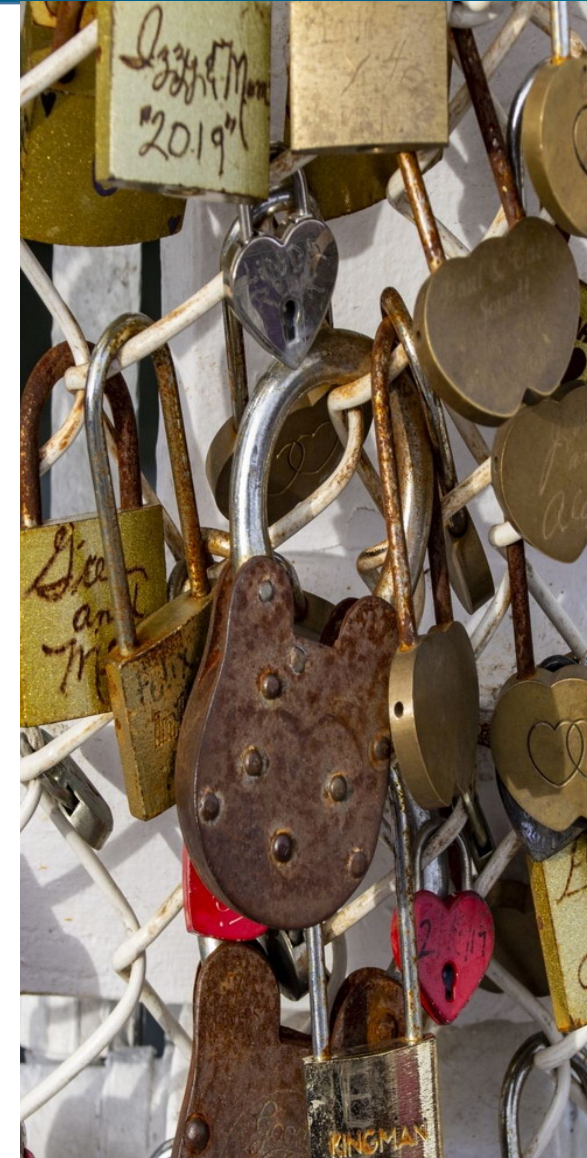
Questions ? contact : Morgan, Bartek

- Rocket chat very active
- Integration Wiki page refactored
- Integration official doc fully refactored in Guilin
- New repos / more small repos
 - Usecases
 - Simulators
- Verification job systematically added



Community & use case support Honolulu

- From Rocket chat to slack on the 1st of February
- Onboard Use case tests in CI/CD (5G CCVPn, MDONS, SON,..)
- New small repos
- Refactoring of Simulators (improve quality & visibility of mature simulators)
- Improve verification jobs



Stability and Resiliency tests Guilin

Questions ? contact : Morgan

- Long duration (1 week)
- No resiliency



Stability and Resiliency tests Honolulu

- Long duration tests in weekly chain
 - // onboarding
 - // instantiation
- Start studying resiliency test
 - K8s node Reboot survival test
 - K8s chaos framework
 - B&R





Credits

- Thats all folks.svg - wikipedia - public domain
- Server Network Cables : <https://www.publicdomainpictures.net/en/view-image.php?image=102081&picture=server-network-cables> - public domain
- Eye Chart Test Vintage : <https://www.publicdomainpictures.net/en/view-image.php?image=244244&picture=eye-chart-test-vintage> - public domain
- Mixed gears : <https://www.publicdomainpictures.net/en/view-image.php?image=260628&picture=mixed-gears> - public domain
- Rope Connection Loop : <https://www.publicdomainpictures.net/en/view-image.php?image=297951&picture=rope-connection-loop> - public domain
- Love padlocks : <https://www.publicdomainpictures.net/en/view-image.php?image=316136&picture=love-padlocks> - Public Domain
- I Like it : <https://www.publicdomainpictures.net/en/view-image.php?image=371988&picture=i-like-it> - Public Domain
- Stones Zen : <https://www.publicdomainpictures.net/en/view-image.php?image=190527&picture=stones-zen> - Public Domain
- Snake : <https://www.publicdomainpictures.net/en/view-image.php?image=212014&picture=snake> - Public Domain