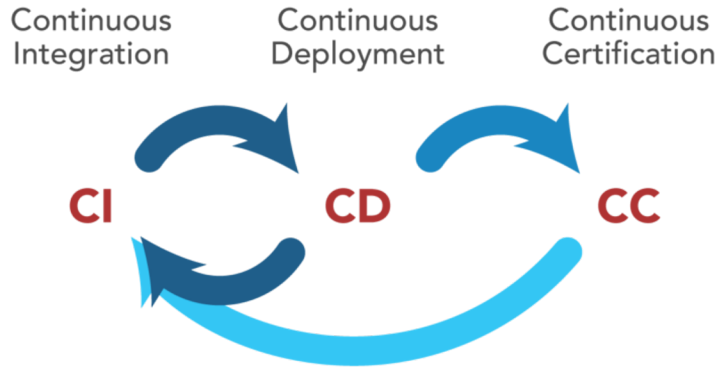# Continuous Certification Program

May 2020

The Need

- Traditional Product Certification is Broken

    - ONF Open Source development moves fast - oftentimes updates occur daily or multiple times per day

    - Written test plans are outdated when they are published, and therefore certification testing can't keep pace with software releases

- Partial Solution

    - ONF builds automated test scripts that are constantly evolving in lock step with the code in the CI/CD era

    - But what about certification?

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ONF Created a "Continuous Certification" Program

Continuous Integration — Continuous Deployment — Continuous Certification

CI   CD   CC

- Products indefinitely enter CI/CD pipeline for a specific project and are tested over and over - not one-time

- Live Jenkins dashboard shared publicly includes the status of all products against the master branch

- When each project cuts a release, all passing products are certified with that release and permanently documented

- In this way, both a real-time and a historical record of compatibility is established for each participating product

ONF

Participating Projects

- Each project TST decides if/when certification will be made available for a project taking taking into account

  - Sufficient infrastructure and CI/CD pipeline

  - Criteria that constitutes 'certification'

    - The definition will evolve and grow more comprehensive as the CI/CD testbed evolves

- ONF projects that are part of the Continuous Certification Program initially:

Project / Product Matrix

- Each product is entered in a specific Project

- Different Projects can accept different categories of equipment

	Switches	Servers	OLT	ONU	GPU	Small Cell RU, DU, CU
SEBA / VOLTHA	x	x	x	x		
Stratum	x					
Aether	x	x			x	x

- Software components will also be considered for certification
  - Project TST determines eligibility

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Requirements to Join

- ONF Member-Only Program

  - Membership support funds this activity

  - There is a fee associated with submitting a product into the program and a nominal annual fee

  - Members receive a credit they can apply to products they submit for inclusion in the Continuous Certification Progam based upon membership level

  - Participating companies provide hardware and get it working with the desired Project code base

  - Participating companies complete a template to have their products featured in ONF Marketplace along with certification status

Member Category	Annual CC Prog Credit
$500k Partners	$50k
$50k	$20k
$40k	$10k
$30k	$5k
$20k	$2.5k
$10k	$1.25k
$5k - $1.5k	$0

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Consider Joining

For additional information and to inquire further, please visit:

https://wiki.opennetworking.org/display/COM/Continuous+Certification+Program