ONAP Project Proposal
Training

Chris Donley
What is a project

A project is:

• **long term endeavor** setup to deliver features **across multiple releases**
• Single entity solely responsible for 1+ repos
• Defined scope
• Led by PTL and committers with expertise in the relevant areas

A project is not:

• Release plan
• Collection of unrelated items
• Broadly scoped without clear rationale
• Existing without repo(s)
• Single-release vehicle
• Scoped so broadly to require committers with different expertise

https://wiki.onap.org/display/DW/Project+Proposal+Template
Project Name:
  - Proposed name for the project: **projectname**
  - Proposed name for the repository: **reponame**

Project description:
  - Provide high level description of intended project and intended use case(s) and benefit, if needed.

Scope:
  - Describe the functionality to be provided by the project. Please provide the full intended scope of the project; not just what is intended for the project's first release.
  - Specify any interface/API specification proposed.
  - Identify a list of features and functionality will be developed.
  - Identify what is in or out of scope. During the development phase, it helps reduce discussion.

Architecture Alignment:
  - How does this project fit into the rest of the ONAP Architecture?
    - Please include architecture diagram if possible.
    - What other ONAP projects does this project depend on?
  - How does this align with external standards/specifications?
    - APIs/Interfaces
    - Information/data models
  - Are there dependencies with other open source projects?
    - APIs/Interfaces
    - Integration Testing
    - etc.
Resources:
- Primary Contact Person
- Names, gerrit IDs, and company affiliations of the committers
- Names and affiliations of any other contributors
- Project Roles (include RACI chart, if applicable)

Other Information:
- link to seed code (if applicable)
- Vendor Neutral
  - if the proposal is coming from an existing proprietary codebase, have you ensured that all proprietary trademarks, logos, product names, etc., have been removed?
- Meets Board policy (including IPR)

Use the above information to create a key project facts section on your project page.

Key Project Facts

Project Name:
- JIRA project name:
- JIRA project prefix:

Repo name:
Lifecycle State:
Primary Contact:
Project Lead:
mailing list tag [Should match Jira Project Prefix]
Committers:
foo@bar.com
baz@qux.com

*Link to TSC approval:
Link to approval of additional submitters:
### Six Questions

Project proposals should answer six questions:

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Who?</td>
<td>Will be doing the work</td>
</tr>
<tr>
<td>What?</td>
<td>Do you propose</td>
</tr>
<tr>
<td>When?</td>
<td>Will you deliver (plan)</td>
</tr>
<tr>
<td>Where?</td>
<td>Will you put deliverables</td>
</tr>
<tr>
<td>Why?</td>
<td>Should we do this</td>
</tr>
<tr>
<td>How?</td>
<td>Does this fit with the architecture</td>
</tr>
</tbody>
</table>
Best Practices for successful proposal

- In order to ensure openness, new project proposals should include at least 3-4 organizations, including at least one operator (prefer more)
- Circulate draft proposals among the community to obtain feedback before presenting on a TSC call
  - Post proposal draft on the wiki under “Proposed Projects” section at least two weeks in advance
  - Send email to tsc@lists.onap.org
  - Contact potentially interested people directly – email/phone calls/Slack/etc.
- The TSC will give preference to project proposals that are based on the existing functionality (vs. replacing such functionality with a new proposal)
- All code contributions must be scanned by the appropriate FOSSology, Black Duck, Sonotype open source audit tools to ensure the code is truly open source
Proposal template

- Can either be entered on the wiki or ppt
- Wiki usually preferred, but ppt may be needed during face-to-face meetings
- If you make changes during the proposal process, make sure you put the latest version on the wiki

https://wiki.onap.org/display/DW/Project+Proposal+Template
Overview

- Project Name
- Repository name
- Project Description
  - What is this project trying to address?
- Project Scope
  - Describe problem being solved
  - APIs/interfaces
  - Testing and integration plans
  - Features and functionality

- What is the problem?
- Why can’t it be solved in existing projects?
- How do you propose we solve it?
Architecture Alignment

- How does this project fit with the ONAP architecture?
  - Include architecture diagram
  - Mention other projects that this affects
- How does this fit with external standards/specifications?
  - APIs/interfaces
  - Information/data models
- Are there dependencies with other open source networking projects?
  - APIs/interfaces
  - Integration testing
  - Etc

- How does your proposal fit with the **existing** ONAP architecture?
- If you think the architecture needs to change, bring it up on an ARC call **before** you propose a new project
- Suggesting architecture changes in a project proposal will slow down the approval process
Resources

- Contact person
- Developers/contributors
  - List developers, company, and affiliation
- Initial Committers
  - List committers, company, and contact info
  - Note that committers have special rights to review code and are part of the project governance
  - Generally limit to 3-5, and make sure they come from at least 3 companies
- Project roles (optional)

- Who has signed up to work on your project? List developer names and affiliation

- DO NOT list “proposed partners”
  - This page is for listing commitments. Project lead should talk to people before making a proposal and only add them if they agree.

- Usually, the PTL is the spokesperson for the project, scrum master, recruiter, etc. If you want to reassign roles, let us know so we know who to contact.
Release Plan

- Describe plan for current release
  - Is this a current release project or a later release?
  - Minimum viable product
  - Stretch goals
  - Milestones
  - Identified gaps

- Describe your longer-term roadmap
  - When will you be able to deliver? It’s OK if you only want to be included in a future release
  - What will you commit to deliver?
  - What will you add if you have extra time?
  - What won’t you deliver in the current release (but realize will be needed)?
  - What will you deliver in a future release? This should be a general statement about scope
Other information

- Link to seed code (if applicable)
- Vendor Neutral
  - If this proposal is coming from an existing proprietary codebase, have you ensured that all proprietary trademarks, logos, product names, etc. have been removed?
- Meets Governing Board policies (including IPR)

Include for completeness:
- Link to seed code if you are contributing any
- Statement that you have reviewed your seed code and removed company logos/trademarks/ec.
- Statement that you will follow GB policy
Key Facts

- Project name:
  - Jira project name:
  - Jira project prefix:
- Repo name:
- Lifecycle state:
- Primary contact:
- Project lead:
- Mailing list tag:
- Developers:
  - a@b.com
- Committers:
  - foo@bar.com
  - baz@qux.com

- This should be a summary of information provided earlier

- After approval, make sure this information is on your wiki page so that we can set up your development environment
Things to avoid

- Changing the architecture in the project proposal
  - Architecture changes should be discussed in the ARC before the new project is proposed
- Duplicating, moving, or changing functionality in existing projects
  - Unless you have support from the existing project team
  - Or the component was designed to be modular and you are adding a driver
- Listing companies as “proposed contributors”
  - Only add people who have agreed to support your project
  - Talk to people from different companies in advance
  - If other people want to sign up after your proposal, you can add them later
What TSC voters are considering

- Is your project addressing a real problem?
- How does this affect other projects?
- Does this advance our architecture?
- How does this fit with the release?
  - Does it increase our risk of delivering on time?
  - Does it support the use case?
  - Do you have enough resources?
  - Are they new, or are you drawing from other projects?
- Will this project make ONAP more attractive to service providers?
- Is this interesting to more than one company?
  - The more we can involve other developers, the better
  - Interest from multiple companies also suggests better market acceptance
Example
Example - Overview

- Project Name: Skynet
- Repository name: skynet
- Project Description
  - More than 50% of trouble tickets are caused by human error
  - This project aims to reduce trouble tickets through neural net-based AI
  - Skynet also implements active countermeasures to prevent human-caused errors
- Project Scope
  - Reduce network errors and trouble tickets through AI and robotics
  - APIs/interfaces: SBI (interfaces to SO NBI); openrobot driver
  - Testing and integration plans
    - 50% unit test goal by M4; developing CSIT tests for integration lab
- Features and functionality
  - AI-based autonomic networking (analytics, closed-loop error correction)
  - Active error countermeasures
Example - Architecture Alignment

- How does this project fit with the ONAP architecture?
  - Skynet extends the UI, provides a common AI service, and adds a robot controller interface
  - See next slide
- How does this fit with external standards/specifications?
  - Consumes and extends self-awareness protocol specification
- Are there dependencies with other open source networking projects?
  - Uses PNDA analytics framework
  - Aligns with openrobot project 800- and 1000-series robots
Example – ONAP Architecture Alignment

**Design-time**
- SDC
  - VNF Design
  - Service Design
- Workflow Design
- Policy Creation
  - Analytic Application Creation
  - Recipie/Engineering Rules & Policy Distribution
- Catalog
- VNF SDK

**Run-time**
- External Data Movement & APIs
  - A&AI
  - Service Orchestration
- Common Services
  - DMaaP
  - ESR
  - Auth.
  - Microservice Bus
- Controllers
  - SDN Agent (SDN-O)
  - SDN-C
  - APP-C
  - VF-C

**Cloud & WI**
- OpenStack
- VMware
- RackSpace
- Azure
- ......
Example - Resources

- Contact person: John Connor

- Initial Committers
  - John Connor (jconnor@t2.com)
  - Miles Dyson (miles@cyberdyne.com)
  - Thomas Anderson (thomasaa@neo.org)

- New developers, not working on other ONAP projects
Example - Release Plan

- First release
  - Develop MVP skynet interface to SO to provide CRUD functions
  - Add AI platform to detect human-caused errors
  - Interface to T-800 robots for error prevention efforts
- Longer-term roadmap
  - Support T-1000 robots
  - Multisite and operator-operator interfaces
Example - Other information

- Link to seed code (if applicable)
  - N/A
- Vendor Neutral
  - This project is vendor-neutral and does not contain code from any commercial product
- Meets Board policy (including IPR)
  - Yes
Example - Key Facts

- Project name: Skynet
  - Jira project name: skynet
  - Jira project prefix: skynet
- Repo name: skynet
- Lifecycle state: incubation
- Primary contact: John Connor
- Project lead: John Connor
- Mailing list tag: skynet
- Committers:
  - jconnor@t2.com
  - miles@cyberdyne.com
  - thomasaa@neo.org