

Open Horizon - Stage 2 - 2023-03-22

Completed by: [Joe Pearson](#), IBM

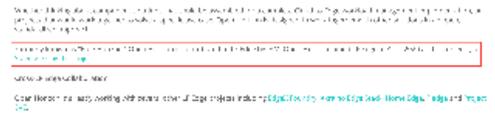
Submitted to TAC Mail List: 2023/04/12

Presented on TAC Weekly Call: 2023/04/19 (Meeting Recording)

i Below is a self-assessment submitted by TSC Chair/Maintainers of the Project. Comments/questions/feedback is welcome either a) in the Comments at the bottom of the page or b) during the TAC call when information is presented

stage 1: At Large Projects

Stage 2 and Stage 3 Projects also requested to complete this section, as PLD acceptance criteria requires meeting current as well as prior stage requirements

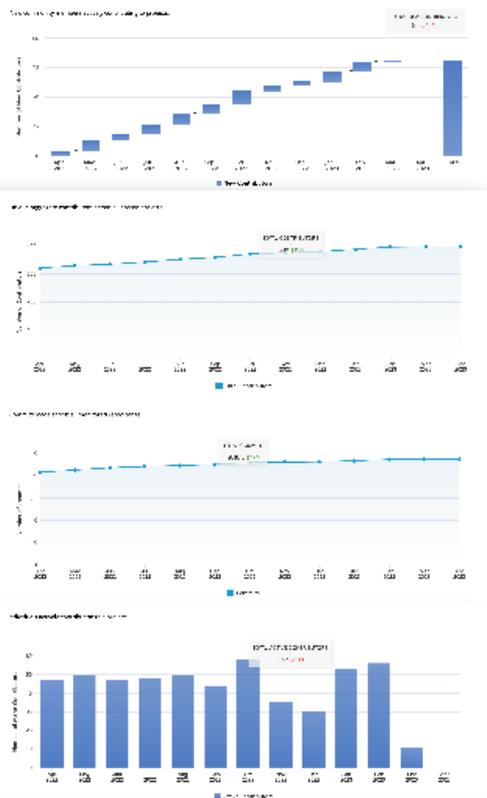
Stage 1 Criteria (from the PLD)	Meets / Needs Improvement / Missing / Not Applicable	Supporting Data (if needed, include links to specific examples)
2 TAC Sponsors, if identified (Sponsors help mentor projects) - See full definition on Project Stages: Definitions and Expectations	Meets	Anil Vishnoi, Red Hat Erik Nordmark, Zededa Jim White, EdgeX Foundry Joe Pearson, IBM
The typical IP Policy for Projects under the LF Edge Foundation is Apache 2.0 for Code Contributions, Developer Certificate of Origin (DCO) for new inbound contributions, and Creative Commons Attribution 4.0 International License for Documentation. Projects under outside licenses may still submit for consideration, subject to review/approval of the TAC and Board.	Meets	
Upon acceptance, At Large projects must list their status prominently on website/readme	Meets	On https://www.lfedge.org/projects/openhorizon/  On https://github.com/open-horizon 

Stage 1 Projects, please skip to **Additional Information Requested from All Projects**

Stage 2: Growth Stage

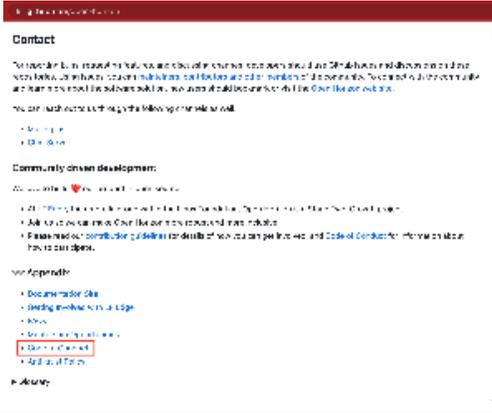
Stage 3 Projects also requested to complete this section

Stage 2 Criteria (from the PLD)	Meets / Needs Improvement / Missing / Not Applicable	Supporting Data (if needed, include links to specific examples)

<p>Development of a growth plan (to include both roadmap of projected feature sets as well as overall community growth/project maturity), to be done in conjunction with their project mentor(s) at the TAC.</p> <p>Demonstrate that the current level of community participation is sufficient to meet the goals outlined in the growth plan.</p>	<p>Meets</p>	<p>Features are released iteratively as testable units are completed. Agent releases happen every Thursday.</p> <p>Upcoming work:</p> <ul style="list-style-type: none"> • Feature Requests • CORS support • AKKA to Pekko conversion <p>Project maturity:</p> <ul style="list-style-type: none"> • All Working Group Chairs will identify backup/replacement and begin training • All WG repos will list MAINTAINERS and keep updated • Add two or more project Partners this year (which will also dilute IBM's influence on the TSC) • Add/recruit more non-IBM Contributors to all WGs <p>Community growth:</p> <ul style="list-style-type: none"> • Develop ties with Eclipse SDV, contribute code demonstrating CD/CD pipeline for workload placement decisions • Work with AgStack Foundation (LF Ag) on open vision models for crop ID • Grow ORRA by adding edge networking and security features, new use cases
<p>Document that it is being used in POCs.</p>	<p>Meets</p>	<ul style="list-style-type: none"> • Falcon Tactical Edge (Mainsail/Turnium/IBM) - H2 2022 • Intel/IBM/Scale Computing retail demo - ONE Summit, November 2022 • DLR/AgriRegio extended w/Samsung - MWC Feb. 2023 • SmartAg SIG component plan - in progress • A "Container on Wheels" POC - in progress • Application-centric networking - in progress
<p>Demonstrate a substantial ongoing flow of commits and merged contributions.</p>	<p>Meets</p>	<p>Insights Link</p>  <p>The charts show the following trends:</p> <ul style="list-style-type: none"> Top Chart (Commits): Shows a steady increase in commits from approximately 10 in 2020 to over 100 in 2022. Second Chart (Merged Contributions): Shows a steady increase in merged contributions from approximately 5 in 2020 to over 50 in 2022. Third Chart (Commits): Shows a steady increase in commits from approximately 5 in 2020 to over 40 in 2022. Bottom Chart (Merged Contributions): Shows a steady increase in merged contributions from approximately 2 in 2020 to over 15 in 2022.
<p>Demonstrate evidence of, or a plan for, interoperability, compatibility or extension to other LF Edge Projects. Examples may include demonstrating modularity (ability to swap in components between projects).</p>	<p>Meets</p>	<ul style="list-style-type: none"> • Support for FDO is embedded in Open Horizon • ORRA integration with EdgeX and FDO • Fledge with Smart Agriculture • EVE with container placement decisioning • State of the Edge contributions • Planned: SBOM & scoring w/Alvarium in 2023

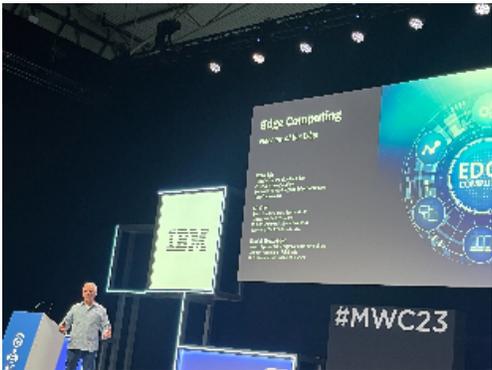
Stage 2 Projects, please skip to **Additional Information Requested from All Projects**

Stage 3: Impact Stage

Criteria	Meets / Needs Improvement / Missing / Not Applicable	Supporting Data (if needed, include links to specific examples)
Have a defined governing body of at least 5 or more members (owners and core maintainers).	Needs Improvement	<p>Link to TSC page on wiki. Current composition is:</p> <ul style="list-style-type: none"> • IBM - 5 (71%) • AccuKnox - 1 (14%) • mimik Technologies - 1 (14%) <p>I am concerned about over-representation by IBM, and thus want to ensure that the project will mature to reach a state where it could continue to thrive even without IBM's active participation.</p>
Have a documented and publicly accessible description of the project's governance, decision-making, and release processes. Explicitly define a project governance and committer process. This is preferably laid out in a GOVERNANCE.md file and references a CONTRIBUTING.md and OWNERS.md file showing the current and emeritus committers.	Meets	<ul style="list-style-type: none"> • Governance - high level description of goals • Community - organizational structure, roles, process • Contributions - feature requests & lifecycle process • Release - feature releases & roadmap see Growth Plan above
Have a healthy number of committers from at least two organizations. A committer is defined as someone with the commit bit; i.e., someone who can accept contributions to some or all of the project.	Meets	<p>See Insights links above.</p> <p>NOTE: Current Insights organization report not accurate.</p>
Demonstrate evidence of interoperability, compatibility or extension to other LF Edge Projects. Examples may include demonstrating modularity (ability to swap in components between projects).	Meets	<p>See interoperability section above.</p>
Adopt the Foundation Code of Conduct.	Meets	 <p>The screenshot shows a webpage titled 'Foundation Code of Conduct'. It includes a 'Contact' section with email and phone information, a 'Community driven development' section with bullet points about community involvement, and a 'For Appropriate' section with links to documentation, feedback, and support. A red box highlights the 'Community driven development' section.</p>
Have a public list of project adopters for at least the primary repo (e.g., ADOP TERS.md or logos on the project website).	Meets	<p>Mainsail, Turnium, IBM, Intel, Samsung, DLR (Rhineland-Palatinate), AgriRegio Projekt, AccuKnox, mimik, Scale Computing, Boston Dynamics, Promare, Intensive, expeer</p>

Additional Information Requested from All Projects

Additional Information Requested from All Projects	Supporting Data (if needed, include links to specific examples)
Intention for the upcoming year (Remain at current stage OR advance towards the next Stage)	We intend to advance to Stage Three when the project <i>and our TAC Sponsors</i> feel we're ready. Hopefully we will be in that position 2H2023.
Include a link to your project's LFX Insights page. We will be looking for signs of consistent or increasing contribution activity. Please feel free to add commentary to add color to the numbers and graphs we will see on Insights.	Insights Link
How many maintainers do you have, and which organizations are they from? (Feel free to link to an existing MAINTAINERS file if appropriate.)	<p>We feature a MAINTAINERS file in each repo, ex:</p> <ul style="list-style-type: none"> • KubeArmor-Integration - AccuKnox • Documentation - IBM • FDQ Support - IBM • Not including Intel's contributions on ORRA since those are in edgexfoundry-holding and not open-horizon repo.

<p>What do you know about adoption, and how has this changed since your last review / since you joined the current Stage? If you can list companies that are end users of your project, please do so. (Feel free to link to an existing ADOPTERS file if appropriate.)</p>	<p>The most recent adoptions are:</p> <ul style="list-style-type: none"> • AccuKnox integrating KubeArmor with Open Horizon, modifying KubeArmor for bare Linux hosts to work with our Device Agent, and joining our project as Partner • IBM implementing our new features in their downstream IEAM 4.5.0 product and rolling out their internal video streaming infrastructure • Mainsail, Turnium, and IBM building Falcon Tactical Edge for a secure edge computing stack based on our project, Intel chips, and secure networking • IBM team currently building a Container on Wheels implementation for eventual open-source contribution to Eclipse SDV • Intensivate building lab to demo their RISC-V ISA SoC with ~100 units with application deployment managed by Open Horizon • DLR testing container deployments to Samsung industrial android devices using Open Horizon as demonstrated at MWC 2023
<p>How has the project performed against its goals since the last review? (We won't penalize you if your goals changed for good reasons.)</p>	<p>Previous Goals:</p> <ul style="list-style-type: none"> • Add non-IBM voting members to the TSC (at least 30%) See above. Non-IBM TSC membership at 28% • Add 20 or more active volunteer contributors • Add three project partners contributing value We now have two official Partners and at least ten Adopters • Bring two new members to LF Edge • Create a project web site In progress, see dev sandbox • Mentor twelve new candidates • Establish ties with at least one university Rensselaer Polytechnic through RCOS • Publish the beta release of the Open Retail Reference Architecture Release v1 was completed. Gearing up for v2 • Launch the Open Edge Services Catalog Launched as the open-horizon-services GitHub
<p>What are the current goals of the project? For example, are you working on major new features? Or are you concentrating on adoption or documentation?</p>	<p>See the Stage Two Growth Plan above.</p>
<p>How can LF Edge help you achieve your upcoming goals?</p>	<p>We need some assistance with fundraising so we can offer LFX Mentorships and run hackathon events.</p>
<p>Do you think that your project meets the criteria for the next Stage?</p>	<p>Not quite yet. We need to diversify our TSC company representation.</p>
<p>Please summarize Outreach Activities in which the Project has participated in (e.g. Participation in conferences, seminars, speaking engagements, meetups, etc.)</p>	<p>Intel InnovatiON</p> <ul style="list-style-type: none"> • 15-minute segment in talk about ORRA and demo <p>ONE Summit</p> <ul style="list-style-type: none"> • Five talks related to Open Horizon <p>MWC 2023</p> <ul style="list-style-type: none"> • Talk included DLR and Resilient Edge Computing in Agriculture with Open Horizon  <ul style="list-style-type: none"> • Booth showed DLR work and featured our logo <p>Edge Expo</p> <p>Open Source Summit in Vancouver</p> <p>IBM THINK</p>
<p>Are you leveraging the Technical Project Getting Started Checklist? If yes, please provide link (if publicly available).</p>	<p>No</p>
<p>Please review, and update if needed, your Project entry on the Existing Project Taxonomy page, modifying the Last Updated / Reviewed date in the header.</p>	<p>No changes needed.</p>

Please share a LFX security report for your project in the last 30 days

blocked URL

SECURITY.md

LFX Security - remove lf-edge repo

github.com/openbaton - Auto Enable New: Search

Open any of [View All](#) [New](#) [Watched](#)

github.com/openbaton/lf-edge	locked link	<input type="checkbox"/>
github.com/openbaton/lf-edge	Secure	<input checked="" type="checkbox"/>
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Security Dashboard

