# Akraino - Stage 3 - 2022-02-09

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Submitted to TAC Mail List: -

Presented on TAC Weekly Call: 2022/02/09



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	Jim St. Leger  @Tina Tsou
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	The Akraino project has an "upstream first" policy. All Akraino Blueprints and Feature projects that contribute to upstream projects must complete the Upstream Dependency Matrix. The tables should be completed at project induction time (for new projects) and refreshed at release time (for existing projects). As of R4 and onward (Releases), in order to build a "stable Release" is a release which Downstream and Community can rebuild after a certain long period of time), Upstream will need to specify upstream repositories completely and with corresponding version/branch information. Also Upstream & Downstream Sub-committee (renamed in 2021) recommends to use tag instead of branch if possible. The list of each Blueprint Upstream Dependendency Matrix and Upstream Project information can be viewed at: https://wiki.akraino.org/display/AK //Upstream+Dependency+Matrix+and+Upstream+Project+Information?src=contextnavpagetreemode
Upon acceptance, At Large projects must list their status prominently on website/readme	Meets	https://www.lfedge.org/projects/akraino/

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

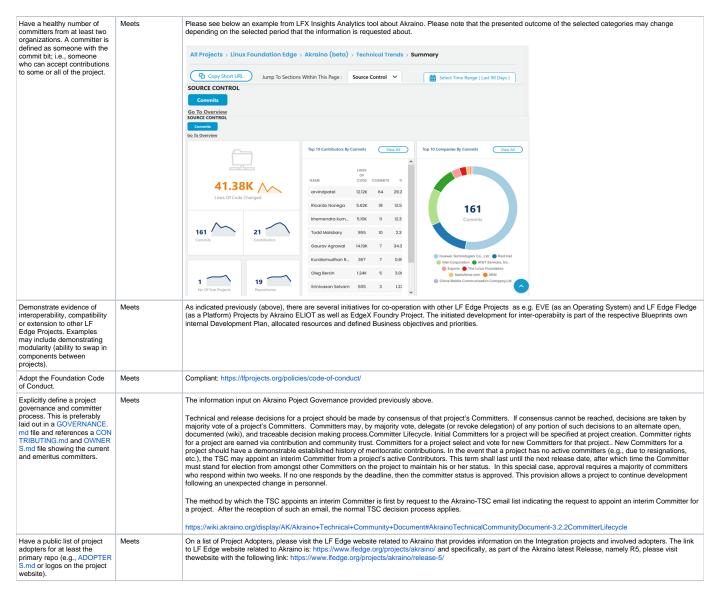
Stage 2 Criteria (from the PLD)	Meets / Needs Improvement / Missing / Not Applicable	Supporting Data (if needed, include links to specific examples)
Development of a growth plan (to include both roadmap of projected feature sets as well as overall community growth/project maturity), to be done in conjunction with their project mentor(s) at the TAC.	Meets	Within Akraino, there is currently  more than 20 Blueprint (Integration) Projects (https://wiki.akraino.org/display and Feture Projects together /AK /Approved+blueprints?src=contextnavpagetreemode  4 Blueprint proposals (https://wiki.akraino.org/display/AK/Blueprint+Proposals?src=contextnavpagetreemode  10 Feature (aka Development) Projects For any Release, BP are required to submit the following (mandatory) list of documents, namely, 1. API Document, 2. Architecture Document, 3. Datasheet (summary) Document, 4. Installation Guide Document, 5. Release notes Document, 6. Test Document.
Document that it is being used in POCs.	Meets	Each Blueprint (Integration) project is required to submit the following set of Documents:     API description, 2. Architecture description, 3. Datasheet (one page Technical summary), 4. Installation Guide, 5. Release notes, 6. Test description. The deployment status of the Blueprint, being PoC, Demo or Commercial is presented/indicated in the Blueprint Architecture document.

Demonstrate a substantial ongoing flow of commits and merged contributions.	Meets	There had been more than 600 committs, by more than 60 contributors over more than 30 repositories. For the latest status /indications on the respective categorie(s), please use the LFX Insights Analytics tool: https://lfanalytics.io/projects/lfedge%2Fedgex-foundry/dashboard
Demonstrate that the current level of community participation is sufficient to meet the goals outlined in the growth plan.	Meets	There have been more than 17.00K builds. For the latest status/indications on the respective categories, please use the LFX Insights Analytics tool: https://insights.lfx.linuxfoundation.org/projects/lfedge%2Fakraino-edge-stack/dashboard
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).	Meets	The previously reported undertakings for high-level co-operation between some of the Akraino Blueprints as e.g. ELIOT and EdgeX Foundry remains. The above also applies for the interaction/use of LF Edge EVE and Fledge (e.g. Akraino Blueprint loT Camera maintenance Blueprint). The initiated by the Akraino API TSC Sub-committee work on assessing the room for potential co-operation among Akraino Blueprints and Development Projects remains and it is also set as part of the Akraino inter-operability Strategy Goals for 2022. Nevertheless, it is important to also explicitly state, that the Business Objectives and prioroties are set by (and within the Companies that had submitted and drive the Blueprints and respectively allocate their internal resources and set the related Budget for those resources to participate).

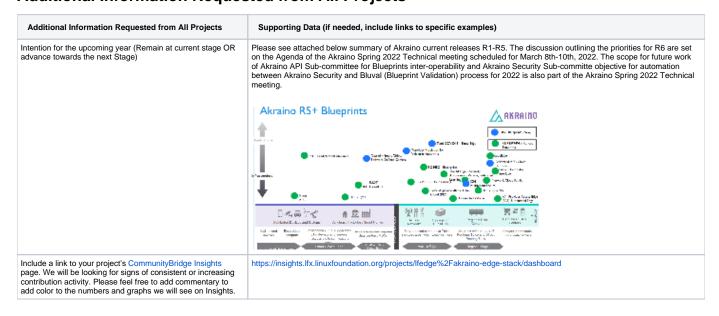
Stage 2 Projects, please skip to Additional Information Requested from All Projects

## **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), of which no more than 1/3 is affiliated with the same employer. In the case there are 5 governing members, 2 may be from the same employer.	Meets	The Akraino Project Community Guiding Principle is to operate transparently, openly, collaboratively, and ethically. All (Akraino) Project proposals, timelines, and status must not merely be open, but also easily visible to outsiders. The structure of the Akraino Technical Community consists of multiple projects and a Technical Steering Committee (TSC), with 20 members (with few new members elected in 2021), that a projects and with representatives from variety of CSPs (Communication Service Providers) Companies. For detailed information on the Akraino TSC Members and the companies they represent, you may look at the: https://wiki.akraino.org/pages/viewpage.action?pageId=4456453
Have a documented and publicity accessible description of the project's governance, decision-making, and release processes.	Meets	Akraino Community Governance  The Akraino Community functions as an Open Source Project, with a set of rules and leaders elected and approved from within the participants of the project.  The following serve as the official sources for Akraino Governance.  Akraino Technical Charter which defines the mission, scope, and key provisions of the Project.  Akraino Technical Community Document which defines the essential business operations of the Project.  Akraino Project Lifecycle States and Reviews  Akraino projects' life cycles defines five (5) states that projects goes through. A project lifecycle may extend across multiple projects and Akraino releases. The procedure of moving from one state to the next one is independent from the Akraino Release lifecycle and the pace depends on each individual project. In order to effectively review Project progress, four (4) Reviews are built-in to the project life cycle, namely, Proposal, Incubation, Mature, Core (Archived Project state can be assigned for multiple reasons. Either project has successfully been completed and its artifacts provide business values, or project has been cancelled for unforeseen reasons (no value anymore, technical, etc.). Project in any state can be Archived through a Termination Review.  blocked URL  https://wiki.akraino.org/display/AK/Community+Governance  Akraino Technical Community Document - For detailed and/or additional insight information on the Akraino Technical Community Document description, you may look at: https://wiki.akraino.org/display/AK/Akraino+Technical+Community+Document



#### **Additional Information Requested from All Projects**



Maintainers are at Akraino Blueprint and Development project level and therein varies accordingly. You can monitor and follow through the LFX Insights - https://insights.lfx.linuxfoundation.org/projects/lfedge%2Fakraino-edge-stack/dashboard
This again varies among Akraino Blueprints and Development projects. Please see at LFX Insights - https://insights.lfx.linuxfoundation.org/projects/lfedge%2Fakraino-edge-stack/dashboard
The targets in terms of Blueprints evolvement/maturity via the above indicated 4 (four phases, "Archived" phase not included /counted) and adding new Blueprints/Development projects had been impacted by the Covid-19 in 2021 in terms that some of the Blueprints had not added any changes/development for R5 and stayed at the R4 level.
The focus is on the coming Akraino R6 and outlining the type and use of APIs by all the Akraino Blueprints and Development Projects for 2022 in order to outline a potential plan and scope for possible inter-operability among the Akraino Blueprints /Development Projects and enhanced automation between Akraino Security and Blueprint Validation processes.
LF Edge can provide an insight on synergy between existing Technology Architecture Specifications from various SDOs and Open Source Communities, e.g. 3GPP, ,ETSI MEC, TM Forum ODA LF ONAP, LFN Anuket, ONAP, CNCF, O-RAN Alliance, Digital Twins Consortium, IoT, etc., and identify a Common Architecture Framework that all LF Edge Projects can follow and through compliance to that Common Architecture Framework achieve and inter-operatibility and scalability among the LF Edge Projects.
Yes.
Participation at various Conferences as ONES and Edge Computing World and varios guest speakers from various Companies and SDOs as ETSI MEC, ETSI NFV, Verizon, Google, HPE, Telefonica, CNCF TUG etc.,
Akraino benefits from the following Getting started Project description.  1. Getting started with Akraino https://wiki.akraino.org/display/~TapioTallgren/Getting+started+with+Akraino  2. Getting started with Akraino Project: Process, Project Review, recommend and Documentation  Process, Project review and recommend sub-committee: Finalize request Templates for Blueprint and feature project, document to allow developers to get started. Develop and evolve the process by which blueprint and feature project proposals are reviewed, and ultimately approved with recommendation required documentation. Template 1 - Use case template 2 - Blueprint family template, Template 3 - Blueprint species template https://wiki.akraino.org/display/AK/Process%2C+Project+review+and+recommend%2C+documentation+sub-committee