## **Project Automatos**

## **Project Proposal**

#### **Project Proposal - Project Introduction:**

Required Information	Responses (Please list N/A if not applicable)	
Name of Project	Automatos	
Project Description (what it does, why it is valuable, origin and history)	What Does Automatos Do?  Automatos provides complete end-to-end manageability and infrastructure orchestration for all edges across various IoT verticals such as retail, health care, manufacturing, banking and entertainment. It is designed and built using modular microservices-based software stackfocusing on heterogeneous needs of IoT verticals.	
	Why is it Valuable?	
	Automatos provides features for orchestrating real time deterministic and real time workloads, small footprint orchestrators and demonstrate the ability to scale. It also provides additional value-adds such as a policy driven configuration engine, security, Al/ML capabilities, telemetry, automation and can interoperate with any Kubernetes distribution. Automatos can be used to deploy Kubernetes clusters in several ways such as:	
	<ul> <li>Virtual cluster</li> <li>On-premises cluster existing cluster</li> <li>Dynamic cluster</li> <li>Hybrid cloud.</li> </ul>	
	The value of Automatos to customers comes from:	
	o Tight integration of Intel platform capabilities with the ability to easily deploy and manage both the platforms (manageability) and the workloads (orchestration) based on customer and solution requirements. These capabilities are critical where data collection and data processing must take place at the edge (often due to latency requirements, or cost and time of sending raw data to the cloud and waiting for the processed results to be delivered back to the edge where the activity takes place.	
	o Ease of deployment, resulting in potential reduction in customer TCO over the solution life.	
	o New business opportunities resulting from solutions created with Automatos orchestration and manageability ingredients. These opportunities can drive industry transformation, enable new customer solutions, and engage with new markets.	
	Origin and History	
	Automatos was released as open-source software by Intel Corporation in July 2022, based on Intel® Edge Conductor V0.4.0 for LF EDGE Evaluation purposes.	
	The original Intel® Edge Conductor launched in Oct 2021 as an Internal Intel reference platform reflecting the original technologies such as Orchestration and Manageability technologies including Secure Device Onboarding (SDO) by Intel IoT group. With the complex ecosystem needed for success of this product, we decided to open source Automatos to the community in order to drive eco-system adoption, resolve key industry manageability and orchestration automation pain points, and allow the IoT market to grow faster. We believe that open sourcing with a vibrant ecosystem allows Automatos to evolve into a true orchestrator for all edges across various IoT verticals.	
Statement on alignment with Foundation Mission Statement	One of the primary objectives of Automatos is to automate, ease and scale Edge deployments and increase TAM on the Edge. To achieve this goal, a cross-industry collaboration of device manufacturers; distributors; systems integrators; cloud service providers and device management software vendors is required to accelerate adoption. The Linux Foundation is the ideal organization to facilitate this collaboration and accelerate adoption of these important technologies.	
High level assessment of project synergy with existing projects under LF Edge, including how the project compliments /overlaps with existing projects, and potential ways to harmonize over time. Responses may be included both here and/or in accompanying documentation.	Automatos will accelerate adoption of cluster formation, deployment and workload orchestration into all IoT ecosystems, helping drive the need for all the current projects in the LF EDGE community.  Integration with LF EDGE enabled devices could simplify the installation and deployment of current and newly manufactured devices and orchestrate the workload that runs on them.	
and/or in accompanying documentation.	•	
Link to current Code of Conduct	https://lfprojects.org/policies/code-of-conduct/	

2 TAC Sponsors, if identified (Sponsors help mentor projects) - See full definition on Project Stages: Definitions and Expectations	TBD		
Project license	Apache License 2.0		
Source control (GitHub by default)	GitHub		
Issue tracker (GitHub by default)	GitHub		
External dependencies (including licenses)	Comments	Licer	nse
	mbedTLS		ache ense 2.0
	Apache Commons Collections		ache ense 2.0
	Apache Commons IO		ache ense 2.0
	Apache Commons Pool	Apac 2.0	che License
	Apache HttpComponents HttpClient	Apac 2.0	che License
	Apache ServiceMix :: Bundles :: spring-aspects	Apac 2.0	che License
	Apache Tomcat	Apac 2.0	che License
	Bouncy Castle PKIX, CMS, EAC, TSP, PKCS, OCSP, CMP, and CRMF APIs	Bour	ncy Castle
	BouncyCastle	Bour	ncy Castle
	CryptoAuthLib		ochip nology Inc.
	epid-sdk	Intel	
	FasterXML jackson-core	Apac 2.0	che License
	github.com/Masterminds/sprig/v3 v3.2.2		MIT License
	github.com/moby/moby v1.4.2-0.20200203170920-46ec8731fbce		Apache 2.0
	github.com/docker/go-connections v0.4.0		Apache 2.0
	github.com/go-openapi/errors v0.19.2		Apache 2.0
	github.com/go-openapi/strfmt v0.19.5		Apache 2.0
	github.com/go-openapi/swag v0.19.5		Apache 2.0
	github.com/go-openapi/validate v0.19.8		Apache 2.0
	github.com/mitchellh/mapstructure v1.4.1 // indirect		MIT License
	github.com/moby/moby v20.10.5+incompatible		Apache 2.0
	github.com/onsi/ginkgo v1.11.0		MIT License
	github.com/onsi/gomega v1.15.0		MIT License
	github.com/pkg/sftp v1.13.1		BSD 2- Clause
	github.com/sirupsen/logrus v1.8.1		MIT License
	github.com/spf13/cobra v1.1.3		Apache 2.0
	golang.org/x/crypt		BSD-3- Clause

golang.org/x/net	BSD-3- Clause
google.golang.org/grpc v1.27.1	Apache 2.0
google.golang.org/protobuf v1.26.0-rc.1	BSD-3- Clause
github.com/fsnotify/fsnotify v1.5.1	BSD-3- Clause
github.com/prashantv/gostub v1.0.0	MIT License
golang.org/x/sys v0.0.0-20210915083310-ed5796bab164	BSD-3- Clause
golang.org/x/tools v0.1.5	BSD-3- Clause
github.com/docker/distribution	Apache 2.0
github.com/go-resty/resty/v2	MIT License
github.com/moby/term	Apache 2.0
github.com/stretchr/testify	MIT License
docker.io/kindest/base:v20210712-e05318fb	Apache 2.0
docker/compose:1.29.2	Apache 2.0
docker/compose:debian-1.29.2	Apache 2.0
goharbor/prepare:v2.3.0	Apache 2.0
quay.io/metal3-io/ironic:master	Apache 2.0
quay.io/metal3-io/ironic-ipa-downloader:master	Apache 2.0
quay.io/metal3-io/keepalived	Apache 2.0
baremetal-operator	Apache 2.0
ip-address-manager	Apache 2.0
cluster-api-provider-metal3	Apache 2.0
kubeadm-bootstrap-controller	Apache 2.0
kubeadm-control-plane-controller	Apache 2.0
cluster-api-controller	Apache 2.0
projects.registry.vmware.com/cluster_api_provider_bringyourownhost/cluster-api-byoh-controller:v0.1.0	Apache 2.0
ghcr.io/kube-vip/kube-vip:v0.3.5	Apache 2.0
k8s.gcr.io/coredns/coredns:v1.8.4	Apache 2.0
k8s.gcr.io/etcd:3.5.0-0	Apache 2.0
k8s.gcr.io/kube-apiserver:v1.22.3	Apache 2.0
k8s.gcr.io/kube-controller-manager:v1.22.3	Apache 2.0
k8s.gcr.io/kube-proxy:v1.22.3	Apache 2.0
k8s.gcr.io/kube-scheduler:v1.22.3	Apache 2.0
gcr.io/kubebuilder/kube-rbac-proxy:v0.8.0	Apache 2.0
quay.io/jetstack/cert-manager-cainjector:v1.6.1	Apache 2.0
quay.io/jetstack/cert-manager-controller:v1.6.1	Apache 2.0
quay.io/jetstack/cert-manager-webhook:v1.6.1	Apache 2.0
clusterctl-linux-amd64	Apache 2.0

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	RT-linux bitnami/kubectl:latest	Apache 2.0

	gcr.io/google-samples/hello-app:1.0	Apache 2.0
Release methodology and mechanics	Automatos currently follows a release cadence of approximately 13 weeks, typically with 9 weeks allocated for development, three weeks for test and validation, and one week for final check and release. Critical defects identified in the three-week test & validation phase are resolved and the code base updated to create a final release candidate for the final week of validation. Release artifacts are generated by a fully automated CI system. Integration test and validation includes both automated and manual testing and	
	provides end-to-end testing of the Automatos components running on Intel based platforms.	
Names of initial committers, if different from those submitting proposal	TBD	
Current number of code contributors to proposed project	20	
Current number of organizations contributing to proposed project	1	
Briefly describe the project's leadership team and decision-making process  Balaji Ethirajulu (Intel), Sr.Director - SW Product Management, is the "product owner" and is identifying the feature roadmap for the Automatos project. He collaborates with members of ecosystem, LF Edge members, and other industry leaders to identify emerging requirement. We anticipate that this process will expand to include others in a Automatos technical steeri comprised of community contributors and ecosystem stakeholders. Balaji Ethirajulu has consource community for over a decade and has held various leadership positions in Linux Four projects over the years.  Hussein Alayan (Intel) is the Program Manager for Automatos where he is responsible for p processes. He has previously contributed to the LF Edge Secure Device Onboard project. We that Hussein will be an initial maintainer for the Automatos project.		the Automatos s and features. ng committee tributed to ope ndation
	Bruce Jones (Intel) is the chief architect for Automatos. He is responsible for translating the roadmap into technical requirements and architectural specifications, for maintenance of the specification, and for the overall security architecture of Automatos We anticipate that he w this role as part of the Automatos Technical Steering Committee.	Automatos
	Yong Hu (Intel), Sanjay Mukherjee (Intel), Nicolae Jascanu (Intel) and David Schneider (Intel technical engineering leads for the Automatos project. Yong and Sanjay are responsible for development. Nicolae is responsible for validation and David is the responsible for oversite of contributions. We anticipate that they will be initial maintainers for the Automatos project, with for ensuring contributions are properly and promptly reviewed and approved, and that they were be joined by other contributors as the community of contributors grows.	software of devops and h responsibility
	David Cobbley (Intel): Automatos - Engineering Director.	
	Automatos is a complex project comprising several sub-components spanning embedded diservices. As the community of contributors grows, we anticipate that the governance model a core team/sub-team model like the one used by the Rust project as described here: https://rust-lang/rfcs/blob/master/text/1068-rust-governance.md.	will evolve into
List of project's official communication channels (slack, irc, mailing lists)	As a recently opened open-source project, we plan to work with LF EDGE in setting up comnet presence (slack, website, social media, etc)	munication and
Link to project's website	As a recently opened open-source project, we plan to work with LF EDGE in setting up communication net presence (slack, website, social media, etc)	
Links to social media accounts	As a recently opened open-source project, we plan to work with LF EDGE in setting up communication annet presence (slack, website, social media, etc)	
Existing financial sponsorship	Intel Corporation	
nfrastructure needs or requests (to nclude GitHub/Gerrit, CI/CD, Jenkins, Nexus, JIRA, other)	<ul> <li>Automatos is moving its continuous integration (CI) infrastructure to Jenkins. If LF EDG alternative solution, we would be interested in learning more about its capabilities and assoc</li> <li>The Automatos plans to maintain both its source and documentation repositories on G</li> </ul>	ciated costs.
	The Automatos project plans to move its documentation to GitHub Pages. IF LF EDG	
	alternative solution, we would be interested in learning more about its capabilities and associated as a solution as a solution and associated as a solution as a solu	ciated costs.
	alternative solution, we would be interested in learning more about its capabilities and associated.  The Automatos project would benefit from access to a Jira instance (or equivalent) may	naged by LF
Currently Supported Architecture	alternative solution, we would be interested in learning more about its capabilities and associate the Automatos project would benefit from access to a Jira instance (or equivalent) ma EDGE.	naged by LF

Project logo in svg format (see https://gith ub.com/lf-edge/lfedge-landscape#logos for guidelines)	As a recently opened open-source project, we plan to work with LF EDGE in setting up communication and net presence (slack, website, social media, etc)
Trademark status	N/A
Does the project have a Core Infrastructure Initiative security best practices badge? (See: https://bestpractic es.coreinfrastructure.org)	No - however, the team is familiar with the Core Infrastructure security badge process and will consider pursuing that badge in the future.
Any additional information the TAC and Board should take into consideration when reviewing your proposal?	No

#### **Project Proposal - Mapping Criteria and Data:**

## Stage 1: At Large Projects (formerly 'Sandbox')

Criteria	D a ta
2 TAC Sponsors, if identified (Sponsors help mentor projects) - See full definition on Project Stages: Definitions and Expectations	T BD
A presentation at an upcoming meeting of the TAC, in accordance with the project proposal requirements	Y es
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 be submitted for consideration, subject to review/approval of the TAC and Board.	Y es
Upon acceptance, At Large projects must list their status prominently on website/readme	Y es

<sup>\*\*\*</sup> For existing Projects requesting Stage 2 or Stage 3 consideration, please update the above with the Stage 2 or Stage 3 Mapping criteria, available at Project Stages Mapping: Criteria and Data

#### Project Proposal - Taxonomy Data:

#### Functions (Provide, Consume, Facilitate, or N/A; Add context as needed)

Functions	(Provide, Consume, Facilitate, or N/A; Add context as needed)
APIs	Provides
Cloud Connectivity	Provide and Facilitate
Container Runtime & Orchestration	Provide and Facilitate
Data Governance	N/A
Data Models	N/A
Device Connectivity	Consumes – HTTP, HTTPs, with architectural support for other connectivity protocols not yet implemented
Filters/Pre-processing	N/A
Logging	Provides
Management UI	Provides (some use cases)
Messaging & Events	Provides

Notifications & Alerts	Provides
Security	Provides
Storage	Provides

### Deployment & Industry Verticals (Support, Possible, N/A; Add context as needed)

Deployment Type	(Support, Possible, N/A; Add context as needed)
Customer Devices (Edge Nodes)	Support
Customer Premises (DC and Edge Gateways)	Support
Telco Network Edge (MEC and Far-MEC)	Possible
Telco CO & Regional	Possible
Cloud Edge & CDNs	Support
Public Cloud	Support
Private Cloud	Support

## Deployment & Industry Verticals ( or X; Add context as needed)

Directly applicable Industry/Verticals use cases	( or X; Add context as needed)
Automotive / Connected Car	
Chemicals	X
Facilities / Building automation	
Consumer	X
Manufacturing	
Metal & Mining	
Oil & Gas	
Pharma	
Health Care	
Power & Utilities	
Pulp & Paper	
Telco Operators	
Telco/Communications Service Provider (Network Equipment Provider)	
Transportation (asset tracking)	
Supply Chain	
Preventative Maintenance	
Water Utilities	
Security / Surveillance	
Retail / Commerce (physical point of sale with customers)	
Other - Please add if not listed above (please notify TAC-subgroup@lists.lfedge.org when you add one)	

## Deployments (static v dynamic, connectivity, physical placement) - ( or X; Add context as needed)

Use Cases	( or X; Add context as needed)
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Gateways (to Cloud, to other placements)	
NFV Infrastructure	
Stationary during their entire usable life / Fixed placement edge constellations / Assume you always have connectivity and you don't need to store & forward.	
Stationary during active periods, but nomadic between activations (e.g., fixed access) / Not always assumed to have connectivity. Don't expect to store & forward.	X
Mobile within a constrained and well-defined space (e.g., in a factory) / Expect to have intermittent connectivity and store & forward.	
Fully mobile (To include: Wearables and Connected Vehicles) / Bursts of connectivity and always store & forward.	

# Compute Stack Layers (architecture classification) - (Provide, Require, or N/A; Add context as needed)

Compute Stack Layers	(Provide, Require, or N/A; Add context as needed)
APIs	Provide
Applications	Provide
Firmware	Require
Hardware	Require
Orchestration	Provide
os	Require
VM/Containers	Provide / Provide

# Cloud Stack Layers (architecture classification) - (Provide, Require, or N/A; Add context as needed)

Cloud Stack Layers	(Provide, Require, or N/A; Add context as needed)
Applications	Yes
Configuration (drive)	Yes
Content (management system)	Yes
laaS	Yes
PaaS	Yes
Physical Infrastructure	No
SaaS	TBD