Baetyl

Status

• Current Project Stage: Stage 1 - At Large

• Website: https://baetyl.io/en/

Wiki: https://github.com/baetyl/baetyl/wiki
 TAC Sponsors: Leding Li (Baidu) + Vikram Siwach (MobiledgeX)

- Originally applied under the name OpenEdge. Final Open Source Project Name: Baetyl.
 Presented during the Wednesday, May 22 TAC call: Meeting Recording (https://zoom.us/recording/share /DLIOG1qTcRbGyxq7gd14rS4_0UuGN_0kRacH-YRpftqwlunekTziMw)
 TAC supervise Peard Strategie Planning Committee, purposed and August 5, 2010.
- Governing Board Strategic Planning Committee approval reached on August 5, 2019.

Presented slides



Project Proposal - Project Introduction:

Required Information	Responses (Please list N/A if not applicable)
Name of Project	OpenEdge

OpenEdge is goal is to provide a general-purpose operating system for edge computing, abstracting dissent types of hardware facilities and sevice expectations in a displaced computing and the content of the provided of the		I
abstracting different types of hardware facilities and device capabilities into a standardized accinization runtime environment and API, anabling efficient management of applications, service, and data flow through a remote console both on cloud and on premise and applications, service, and data flow through a remote console both on cloud and on premise and APIs, and provide a graphical IDE in the future. Why it is valuable? Why it is valuable?	Project Description (what it does, why it is valuable, origin and history)	What does OpenEdge do?
support, reduce the difficulty of developing edge calculations with a set of built-in sorvices and APIs, and provide a graphical IDE in the future. Why it is valuable? With modern container and serveriess design concepts and engineering tools optimized for stand-alone and small multi-machines. OpenEdge enables a variety of edge hardwares and cloud native applications to work better together. The OpenEdge for framework itself provides an edge computing platform on most common chips and operating systems, while also going to provide a lighter and more secure edge operating systems, while also going to provide a lighter and more secure edge operating systems, while also going to provide a lighter and more secure edge operating systems, while also going to provide a lighter and more secure edge operating systems, while also going to provide a lighter and more secure edge operating systems directly which will significantly reduce the cost of ownership. OpenEdge also includes several built-in services like MOTT server and client, functions as "Service, which will be felicibally reduce the cost of ownership." OpenEdge also includes several built-in services like MOTT server and client, functions as "Service, which will be felicibally reduce the cost of ownership." OpenEdge also includes several built-in services like MOTT server and client, functions and geographic location. These will help developers to innovate better. The OpenEdge shall provides a several built-in services like the MOTT server and client, and geographic location. These will help developers to innovate better. The OpenEdge shall provides and provides and provides and provides and standardized security mechanisms to social developers to innovate better. Origin and History OpenEdge is applications, so we decided to open source and observation and technology for a variety of potential enterprise commercial applications scenario, we believe that the market needs a more foundamental and versatile computing platform to carry more different types		abstracting different types of hardware facilities and device capabilities into a standardized container runtime environment and API, enabling efficient management of
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Source control (GitHub by default) https://github.com/baidu/openedge, going to switch to openedgetech/openedge		Leding LI, Baidu + Vikram Siwach, MobiledgeX
	Project license	Apache-2.0
	Source control (GitHub by default)	https://github.com/baidu/openedge, going to switch to openedgetech/openedge
Issue tracker (GitHub by default) https://github.com/baidu/openedge, going to switch to openedgetech/openedge	Issue tracker (GitHub by default)	https://github.com/baidu/openedge, going to switch to openedgetech/openedge

External dependencies (including licenses)	Name	License
	github.com/256dpi/gomqtt	Apache-2.0
	github.com/creasty/defaults	міт
	github.com/deckarep/golang-set	MIT
	github.com/docker/distribution	Apache-2.0
	github.com/docker/docker	Apache-2.0
	github.com/docker/go-connections	Apache-2.0
	github.com/docker/go-units	Apache-2.0
	github.com/etcd-io/bbolt	MIT
	github.com/golang/protobuf	BSD-3-Clause
	github.com/gorilla/mux	BSD-3-Clause
	github.com/jolestar/go-commons- pool	Apache-2.0
	github.com/jpillora/backoff	MIT
	github.com/mholt/archiver	MIT
	github.com/orcaman/concurrent- map	MIT
	github.com/sevlyar/go-daemon	MIT
	github.com/shirou/gopsutil	BSD
	github.com/sirupsen/logrus	MIT
	github.com/spf13/cobra	Apache-2.0
	github.com/stretchr/testify	MIT
	golang.org/x/net	https://go.googlesource.com/net/+/master /LICENSE
	google.golang.org/grpc	Apache-2.0
	gopkg.in/natefinch/lumberjack.v2	MIT
	gopkg.in/tomb.v2	https://github.com/go-tomb/tomb/blob/v2 /LICENSE
	gopkg.in/validator.v2	Apache-2.0
	gopkg.in/yaml.v2	Apache-2.0
Release methodology and mechanics	Agile, monthly release	
Names of initial committers, if different from those	Leding LI, Baidu	
submitting proposal	Danfeng LU, Baidu	
	Youjun YUAN, Baidu	
	Mengtao WANG, Baidu	
	Xiaochen WANG, Baidu	
	Jian ZHU, Baidu	
Current number of code contributors to proposed project	12	
Current number of organizations contributing to proposed project	Baidu, Inc.	

Briefly describe the project's leadership team and decision-making process	Leding LI, Chief architect of Baidu Cloud IoT
	OpenEdge's original code and feature design is derived from Baidu's BIE project. OpenEdge's current roadmap will continue to move toward the goal of "providing a
	cloud-native experience on edge hardware." Specific features and priorities are tailored to the needs of users, developers, partners, and application customers. Some of the features come from the cooperation with Baidu's edge computing business, which have relatively clear application scenarios and higher priority.
Preferred maturity level (see stages here)	OpenEdge is applying for Growth stage.
For Projects applying at the Growth (Phase 2) or Impact Stage (Phase 3), please outline how your project successfully meets/exceeds the requirements as defined under each category. Responses may be included both here and/or in accompanying documentation.	Povelopment of a growth plan, to be done in conjunction with their project mentor (s) at the TAC. Roadmap: https://github.com/baidu/openedge/blob/master/roadmap.md We are building joint labs with several universities in China to foster long-term development in the OpenEdge community. Document that it is being used in POCs. Intelligent crop protection and real-time monitoring with OpenEdge Intelligent detection of construction dregs and throwing alarm with OpenEdge Intelligent detection of construction dregs and throwing alarm with OpenEdge Demonstrate a substantial ongoing flow of commits and merged contributions. https://github.com/baidu/openedge/commits/master Demonstrate that the current level of community participation is sufficient to meet the goals outlined in the growth plan. We have 11 fulltime contributors hired by Baidu focusing on OpenEdge project. Demonstrate evidence of, or a plan for, interoperability, compatibility or extension to other LF Edge Projects. We have a clear plan to run OpenEdge on 5G/MEC cluster constructed by Akraino. Since these metrics can vary significantly depending on the type, scope and size of a project, the TAC has final judgement over the level of activity that is adequate to meet these criteria. Ok Receive a two-thirds supermajority vote of the TAC and a majority vote of the Governing Board to move to Growth Stage. Ok
List of project's official communication channels (slack, irc, mailing lists)	mailto:contact@openedge.tech, going to switch to mailing list soon
Link to project's website	https://openedge.tech/
Links to social media accounts	Wechat: OpenEdge1, OpenEdge2, OpenEdge3
	Planning to create Facebook, Twitter & Slack account
Existing financial sponsorship	Baidu, Inc.
Infrastructure needs or requests	Container
Currently Supported Architecture	x86, x86-64, armv7, armv8, mips, mips64
Planned Architecture Support	powerpc, risc-v
Project logo in svg format (see https://github.com/lf-edge /lfedge-landscape#logos for guidelines)	https://github.com/baidu/openedge/blob/master/doc/artwork/logo.svg
Trademark status	N/A
Does the project have a Core Infrastructure Initiative security best practices badge? (See: https://bestpractices.coreinfrastructure.org)	No
Any additional information the TAC and Board should take into consideration when reviewing your proposal?	OpenEdge has already got over 900 stars on github within 6 month, which is 2nd in the same class.
	A series of PoC have been published on 2019 CES show.

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

Criteria	Data
2 TAC sponsors to champion the project & provide mentorship as needed	Leding LI, Baidu
	Vikram Siwach, MobiledgeX
A presentation at an upcoming meeting of the TAC, in accordance with the project proposal requirements	Presented on May 22, 2019
Adherence to the Foundation IP Policy	Yes
Upon acceptance, At Large projects must list their status prominently on website/readme	Yes, preparing the website update

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	Provide
Cloud Connectivity	Provide, not only Baidu Cloud
Container Runtime & Orchestration	Consume
Data Governance	Provide
Data Models	N/A
Device Connectivity	Provide, MQTT protocol
Filters/Pre-processing	Provide
Logging	Provide
Management UI	Provide, not determined yet
Messaging & Events	Provide
Notifications & Alerts	Provide, under developing
Security	Provide
Storage	Provide

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)	Support
Telco CO & Regional	Support
Cloud Edge & CDNs	Support
Public Cloud	Support

Private 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	X
Health Care	X
Power & Utilities	
Pulp & Paper	X
Telco Operators	
Telco/Communications Service Provider (Network Equipment Provider)	
Transportation (asset tracking)	
Supply Chain	
Preventative Maintenance	
Water Utilities	X
Security / Surveillance	
Retail / Commerce (physical point of sale with customers)	X
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)
Gateways (to Cloud, to other placements)	
NFV Infrastructure	X
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.	
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.	Х

Compute Stack Layers and Cloud 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	Provide, OS as a Firmware
Hardware	Require
Orchestration	Require
os	Provide
VM/Containers	Require, vm is optional

Cloud Stack Layers	Does Proposed Project Currently Include (Yes, No or Planned/Roadmap)
Applications	Yes
Configuration (drive)	Yes
Content (management system)	Yes
laaS	No
PaaS	Yes
Physical Infrastructure	No
SaaS	No