

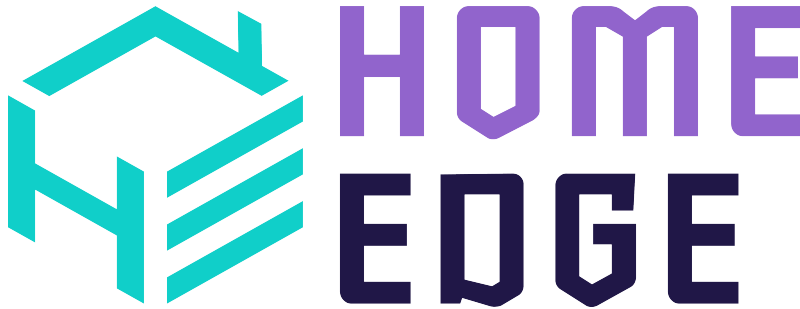
Home Edge Project



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This Wiki is owned by the Home Edge Community. Contributions are always welcomed to help make it better!

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Welcome to the Home Edge Project!

LF Edge Stage 2 (Growth Stage) Project

Home Edge is a Growth stage project under the [LF Edge](#) umbrella project. LF Edge aims to establish an open, interoperable framework for edge computing independent of hardware, silicon, cloud, or operating system. [Stage 2 projects](#) in LF Edge are interested in reaching the Impact Stage, and have identified a growth plan for doing so.

Home Edge : Drivers & Enablers

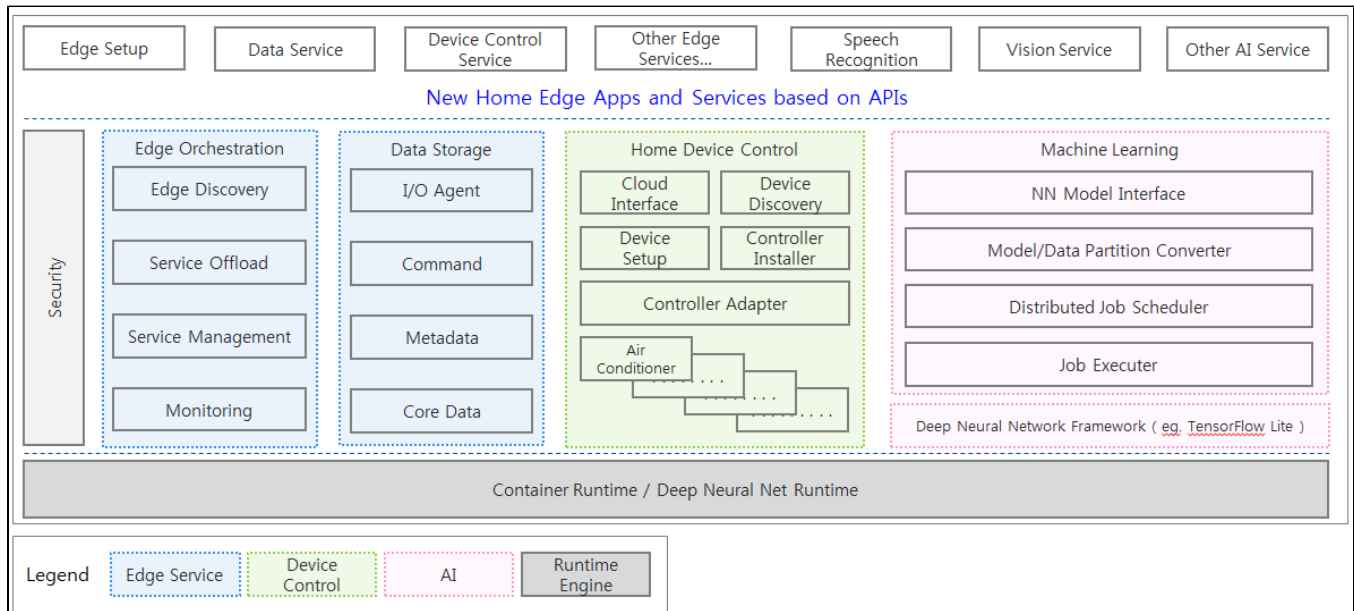
Drivers

- Smart Home products are now mainstream and need common API, gateway, UI, and lifecycle management.
- AI technologies enabling learning and lifestyle/safety prediction requires local but connected edge computing.
- Real time/low latency requirements increasing as safety, natural disasters and home health become mainstream beyond telecom "triple play".
- Data storage and data privacy increasingly important and require sensitive data closer to home/user.

Smart Home has a great potential to enable new business apps through home edge computing.

Introducing Home Edge Project

Home Edge Project, the seed codes will be contributed by Samsung Electronics, concentrates on driving and enabling a robust, reliable, and intelligent home edge computing open source framework, platform and ecosystem running on a variety of devices at daily home lives. To accelerate the deployment of the edge computing services ecosystem successfully, the Home Edge Project will provide users with an interoperable, flexible, and scalable edge computing services platform with a set of APIs that can also run with libraries and runtimes.



Home Edge Project Scope

- Define use cases, architecture and technical requirements.
- Develop and maintain the features and APIs targeting Smart Home use cases and requirements in a manner of open source collaboration.
- Upstream the core features back to the existing/upcoming projects under LF Edge.
- Connect with Vertical Solutions WG on Smart Home in EdgeX, and Blueprint on Smart Home & Akraio through testbed validation.

Technical Requirements

- Dynamic device and service discovery at "Home Edge".
- Quality of Service guarantee in various dynamic conditions (e.g. devices On/Off).
- Distributed machine learning.
- Multi-vendor interoperability.
- User privacy and secure services.

Recent space activity

Precise Testing

[Write an Effective Bug Report](#) created Nov 21, 2023

[WebDriverManager Services in Noida](#) created Nov 03, 2023



suresh lc

[Release Notes for Eucalyptus](#) updated Oct 06, 2022 [view change](#)



Kendall Perez

[Technical Steering Committee \(TSC\)](#) updated Jul 06, 2022 [view change](#)



suresh lc

[Roadmap and Release Notes](#) updated May 20, 2022 [view change](#)

Space contributors

- [Precise Testing](#) (178 days ago)
- [suresh lc](#) (571 days ago)
- [Kendall Perez](#) (662 days ago)
- [Peter Moonki Hong](#) (875 days ago)
- t.drozдовsky@samsung.com (969 days ago)
- ...

