

AIoT in Smart Office Blueprint

Qian Zhao
herbertzhao@tencent.com

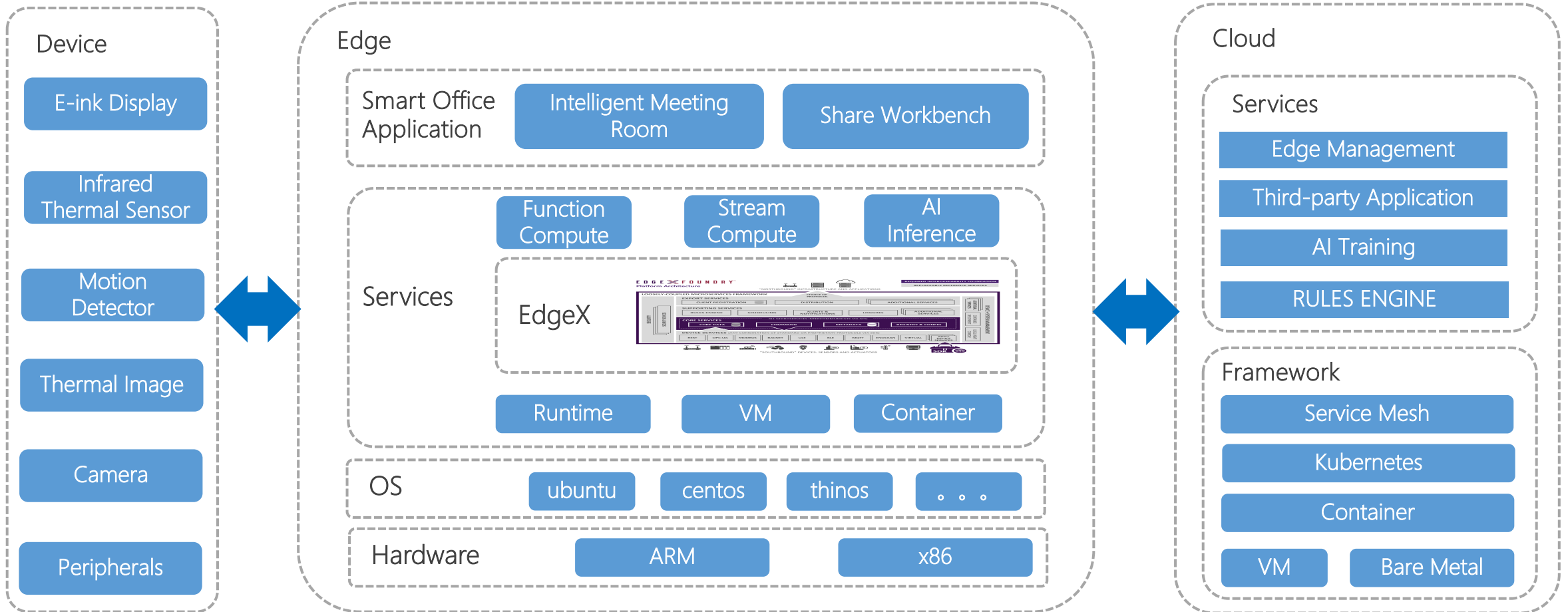
Motivations and Benefits of Smart Office

- Increase the efficiency of management and decrease the overall cost of managing the office.
- Make it easy for every one to reserve and use the meeting room.
- Diminish the waste of resource caused by forgetting to cancel the reservation when the meeting room is no longer needed.
- Enable the use of temporary working space for circulating employees (interns, traveling employees, etc.).
- Humanization of personal working space.

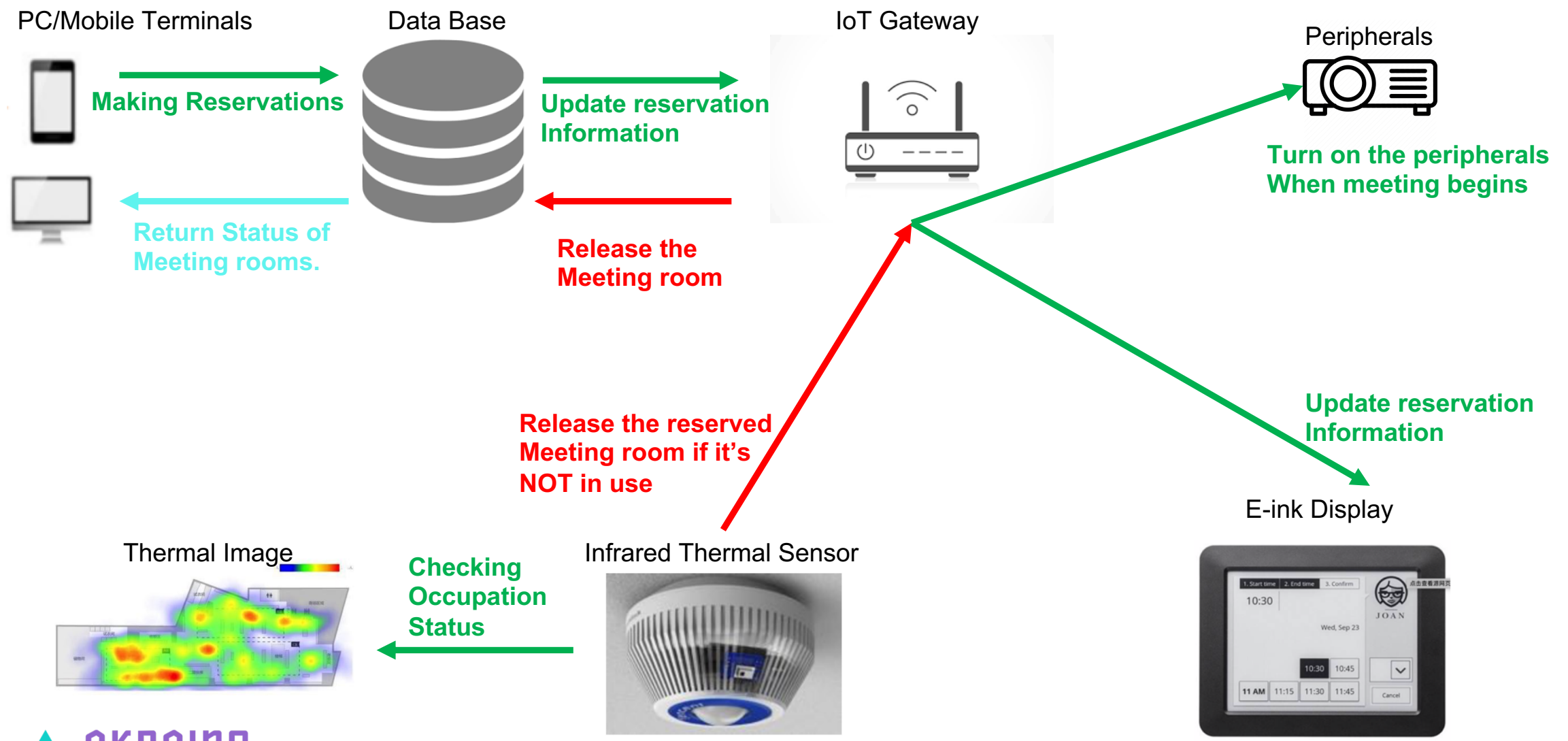
Blueprint Proposal: AIoT in Smart Office Blueprint

Case Attributes	Description	Informational
Type	New	
Blueprint Family - Proposed Name	ELIOT	
Use Case	Deployment of AIoT in office	
Blueprint proposed Name	AIoT in Smart Office	
Initial POD Cost (capex)	500's USD or less per office room. Depending on the scale	
Scale & Type	ARM devices or servers X86 devices or servers	
Applications	Include but not limited to: 1. Intelligent Meeting Room. 2. Sharing working space. 3. Security system without securities.	
Power Restrictions	N/A	
Infrastructure orchestration	Containers, Kubernetes, Service Mesh	
Workload Type	Bare Metal, VM or Container	
Additional Details	Realized using IoT gateway with edgeX integrated and sensors.	

Architecture Overview

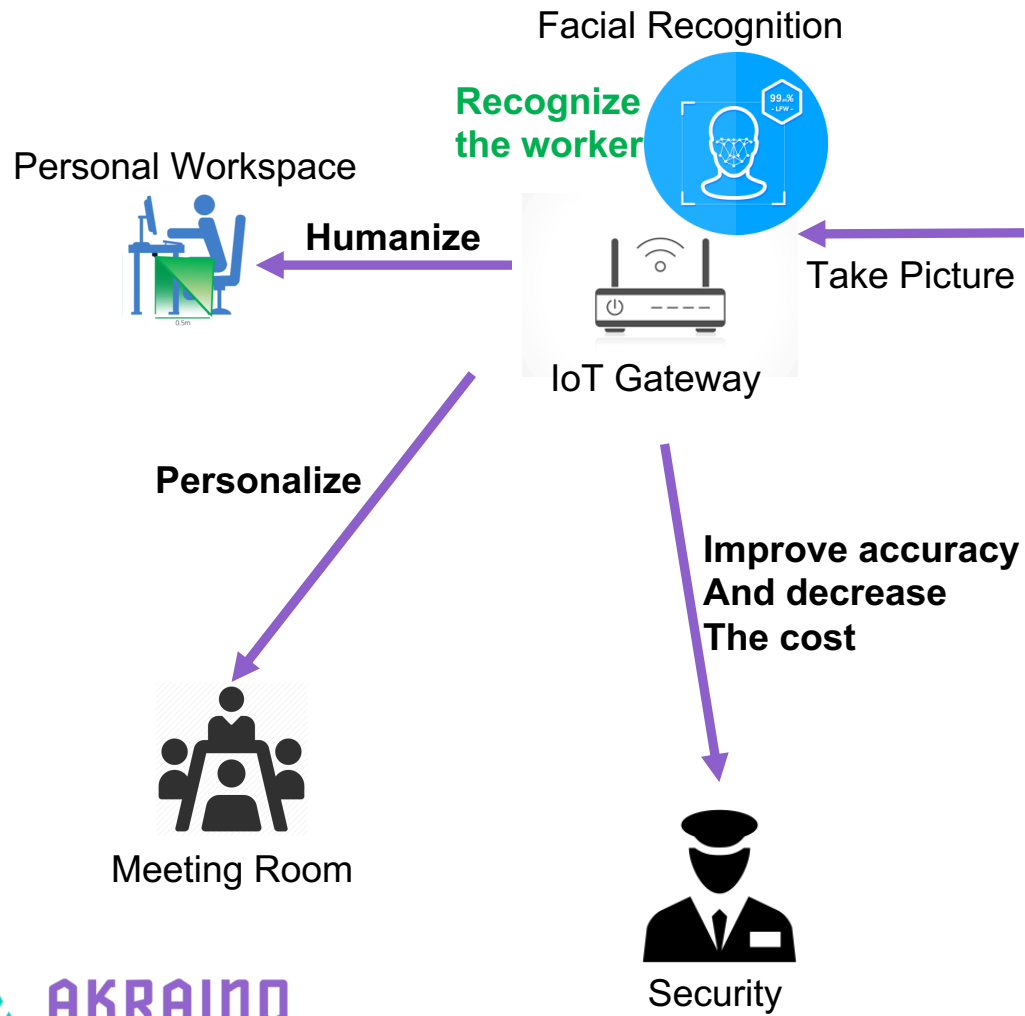


Intelligent Meeting Room Scenario

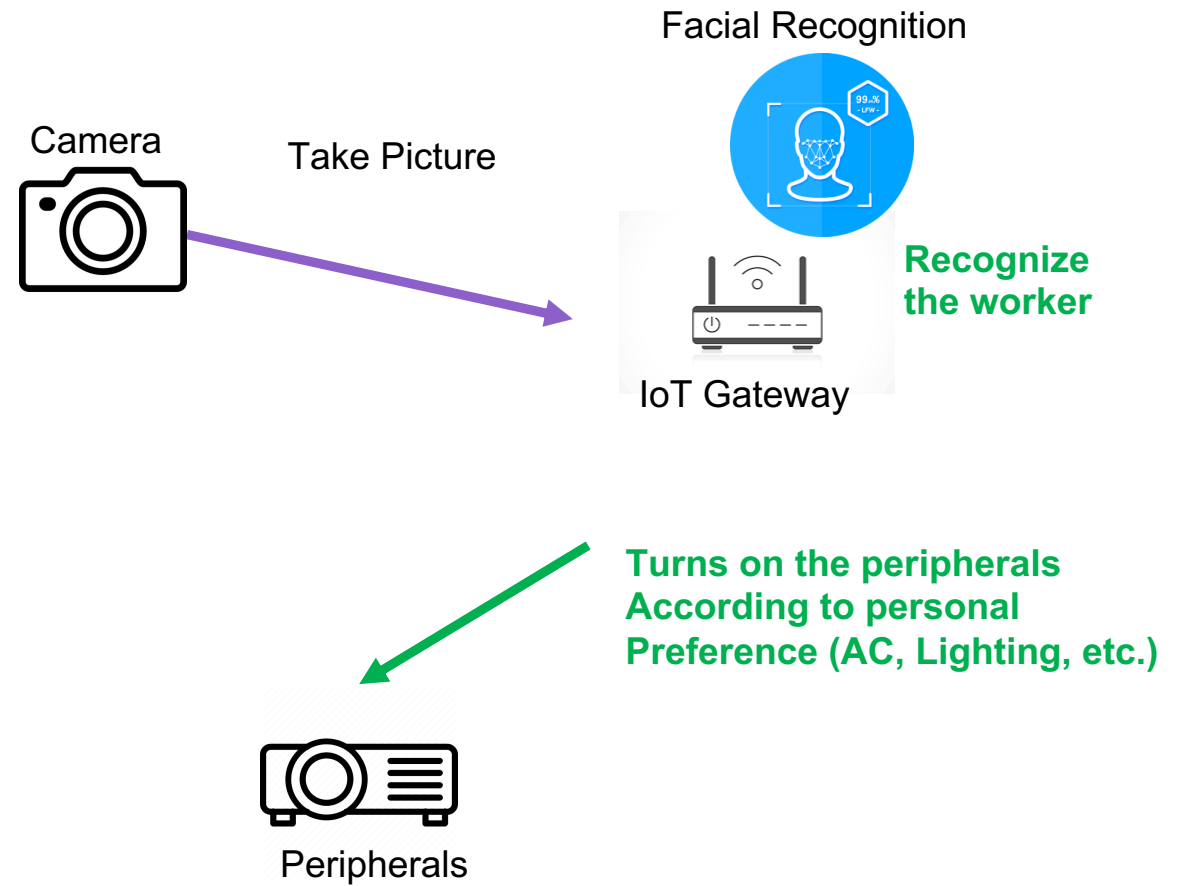


AIoT in Smart Office and Other Applications

AIoT in Smart Office



Humanization of personal working space



Appendix: Assessment Criteria

Criteria	AIoT in Smart Office Blueprint
Each initial blueprint is encouraged to take on at least two committers from different companies.	Tencent, Huawei
Complete all templates outlined in this documents	Detailed in this slide
A lab with exact configuration required by the blueprint to connect with Akraino CI and demonstrate CD. User should demonstrate either an existing lab or the funding and commitment to build the needed configuration.	Test facility will be provided by TEG department in Tencent Beijing
Blue print is aligned with the Akraino Edge Stack Charter	All opensource, Edge sue case, Aligned with the Akraino Charter
Blueprint is code that will be developed and used with Akraino repository should use only open source software components either from upstream or Akraino projects.	Yes, all open source.
For new blueprints submission, the submitter should review existing blueprints and ensure it is not a duplicate blueprint and explain how the submission differs. The functional fit of an existing blueprint for a use case does not prevent an additional blue print being submitted.	AIoT in Smart Office blueprint does not exist in Akraino yet.

Criteria	AIoT in Smart Office Blueprint
Name of the project is appropriate(no trademark issues etc.); Proposed repository name is all lower-case without any special characters.	AIoT in Smart Office Blueprint
Project contact name, company, and email are defined and documents	Qian Zhao, Tencent herbertzhao@tencent.com
Description of the project goal and its purpose are defined	Make the management of the office more efficient and reduce the cost.
Scope and project plan are well defined	Targeted for R2 release
Resource committed and available	There is a team, resources and a lab in place.
Contributors identified	Tencent, Huawei
Initial list of committers identified (elected/proposed by initial contributors)	Tencent, Huawei
Meets Akraino TSC policies	The project will operate in a transparent, open, collaborative and ethical manner all the time.
Proposal has been socialized with potentially interested or affected projects and/or parties	Have already reached a consensus with sponsors.
Cross Project Dependencies	Containers, Kubernetes, Service Mesh