Open Retail Reference Architecture (ORRA)

Initial Project Kickoff Meeting

March 18, 2021
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Agenda

• Welcome – Camillo / Joe / Henry
• Announce: Chairs and Secretary
• ORRA Goals
• Discussion: reach a consensus on the following
  • Desired outcomes for the next 3-6 months
  • Proposed initial architecture
  • Execution Plan
  • Objectives
• Next meeting
ORRA Project Co-Chairs and Secretary

- **(Co-)Chair** – This is the leadership and facilitator role. Duties include running meetings and setting the agenda, regular presentations and updates to the founding member projects, recruiting new participants to the project, speaking with the press, and delegating these duties as needed.

- **Secretary** – This is the information capturing and disseminating role. Duties include capturing and publishing meeting minutes, scheduling meetings, creating documentation and templates (or standard forms), and delegating these duties as needed.

From: https://wiki.edgexfoundry.org/display/FA/ORRA+Governance+Structure
ORRA Goals

Create...

• A base foundation of retail-centric APIs at cloud and edge for building best-in-class retail experiences (that allow multiple vendors, suppliers and projects to both utilize and implement the APIs)

• A common application deployment platform for edge-native deployments (to minimize validation and integration testing required)

• Consistent integration methods, drawing on cloud-native development practices (so that integrating applications and data at the edge uses the same technology as at the cloud)

• A comprehensive set of connectors for retail IOT devices

• A community based on OSS principles to enable higher velocity of innovation

https://wiki.edgexfoundry.org/display/FA/Open+Retail+Reference+Architecture
Discussion: Desired outcomes, near-term

- Define MVP phases: crawl > walk > run
- Crawl phase target date: June 2021 (NRF)
- Walk phase target date:
- Run phase target date:
Store topology architecture

Other (non-compute) IOT Sensor Devices

Edge Devices

Retail Application Services
Retail Application Services
Retail Application Services

ORRA Platform Services
Container Runtime

VM
VM
VM

ORRA Platform Services
Container Runtime

Retail Cloud Services

Edge Server / Cluster / Gateway (back of store)
Retail Edge Device

Retail Application Services

Retail Application Services

Retail Application Services

ORRA Platform Services

Retail Cloud Services

ORRA Platform Services

Container Runtime
Retail Edge Server / Cluster / Gateway (Back of Store)
Discussion: ORRA Execution Plan

- Agree on foundational components
- Identify missing components
- Request proposals on missing components
- Create integration and testing plans
- Identify gaps in planning: documentation, DevOps system, etc.
Discussion: ORRA Objectives

- Create a framework in which retail suppliers and vendors work together in an ecosystem to deliver their unique value that is vibrant and economically attractive to Retail merchants.

- Develop solutions that:
  - share a common infrastructure
  - have a consistent integration method
  - leverage common security practices
  - have a consistent approach to support and service
Next Meeting

- April 1, 2021 (no fooling) at 1pm US Eastern
Thank you