



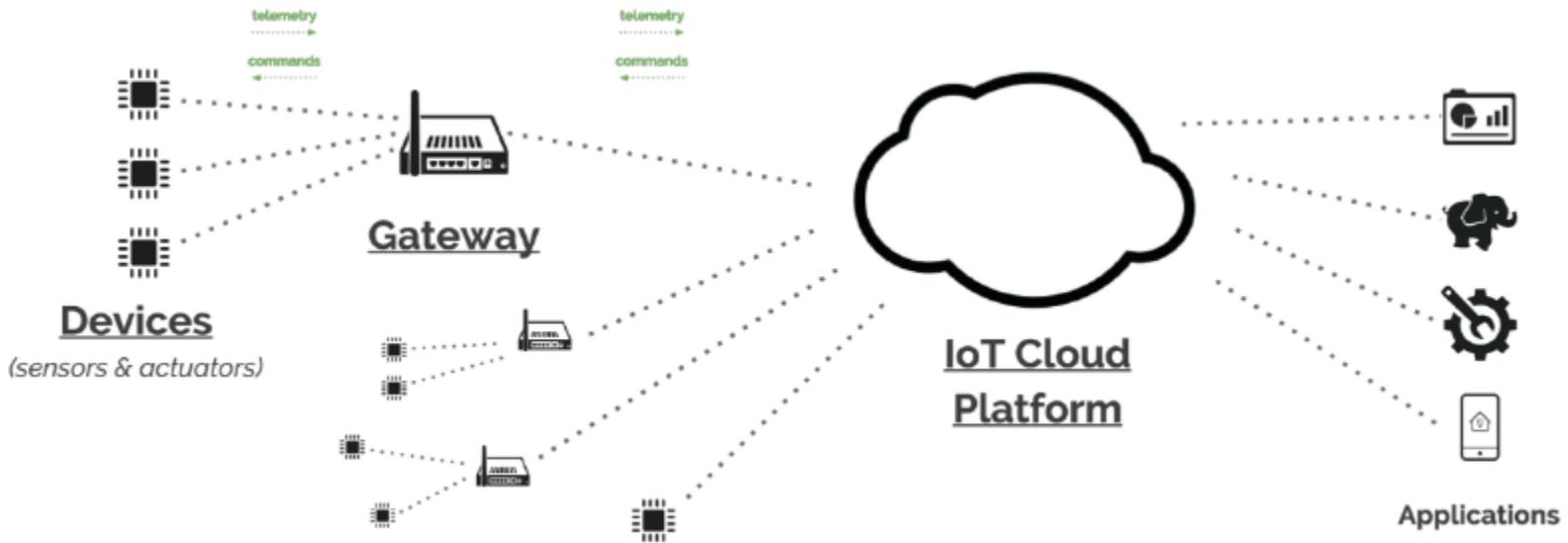
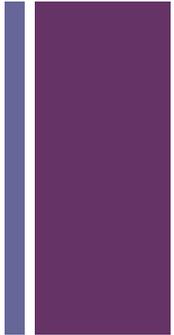
Eclipse Kapua Project Update

Ludwigsburg – 24/10/2016
Stefano Morson – Project Lead



Eclipse Kapua

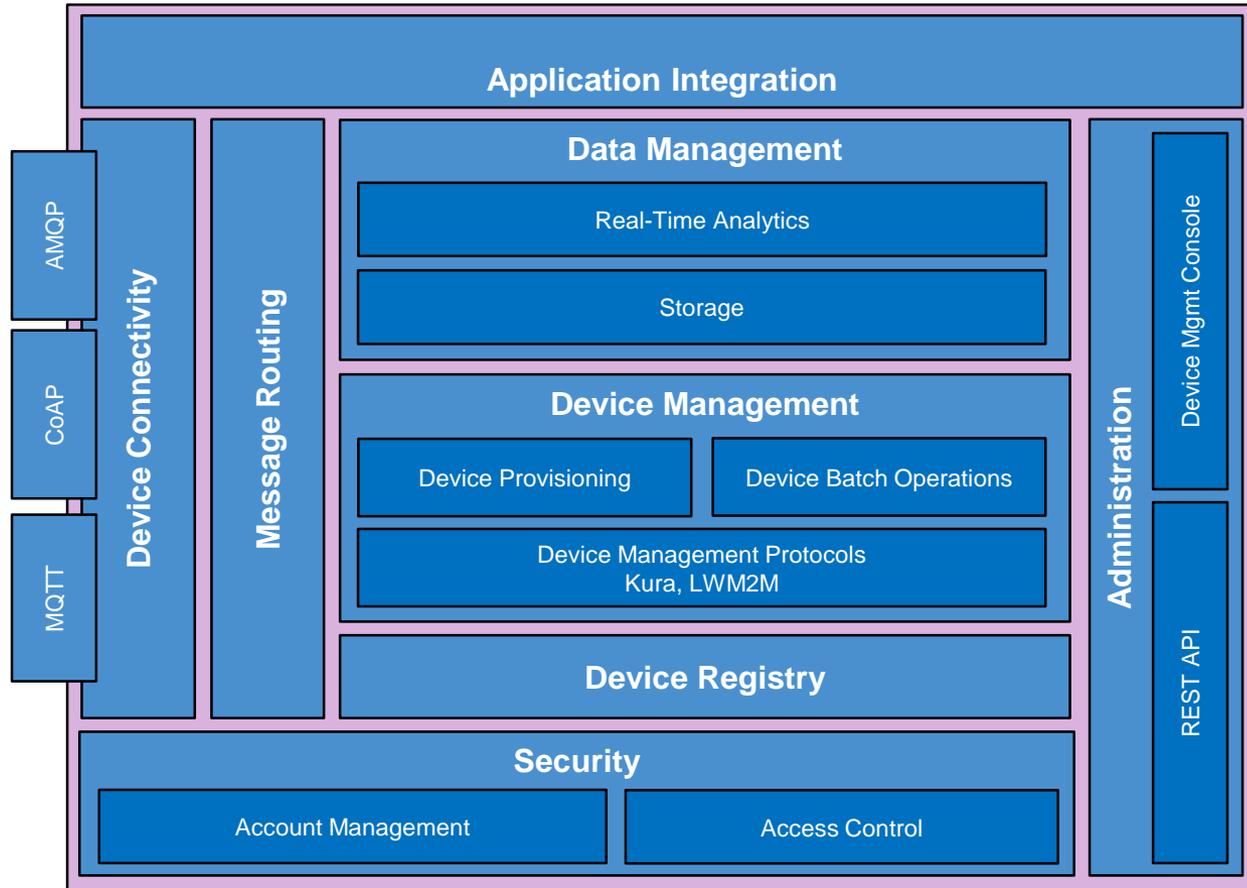
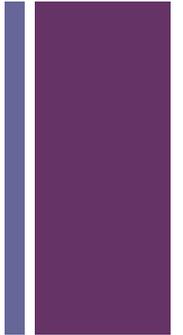
Eclipse IoT Integration Platform



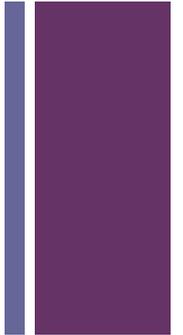


Eclipse Kapua

Architecture



+ Kapua Status

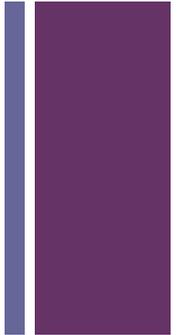


- Initial Code Contribution on Oct. 14th 2016
 - Message Broker
 - Web Console
 - RESTful APIs
 - Backend Services
 - Demo & Test Environment
 - Getting Started Guide
 - Project Web Site
- Integrations
 - Kura
 - Paho
 - ActiveMQ
 - Camel
- Kapua Services
 - Accounts (Multi Tenancy)
 - Users
 - Authentication
 - Authorization (RBAC)
 - Connection Management
 - Device Registry
 - Device Profile
 - Connection Status
 - Device Lifecycle
 - Device Management
 - Bundles
 - Configurations
 - Commands
 - Packages
 - Datastore [in-progress]
 - Per-Tenant Configurations



Eclipse Kapua

Core IoT Services



BATCH JOBS

Job Service

Job Report Service

DATA ANALYTICS SERVICES

Rules Service

DATA REGISTRY SERVICES

Data Storage Service

Data Registry Service

Data Usage Service

DEVICE MANAGEMENT SERVICES

Configuration Management Service

Bundle Management Bundle Service

Package Management Service

Remote Command Service

Provisioning Service

DEVICE REGISTRY SERVICES

Device Registry Service

Device Lifecycle Service

Device Connection Service

FOUNDATION SERVICES

User Service

Account Service

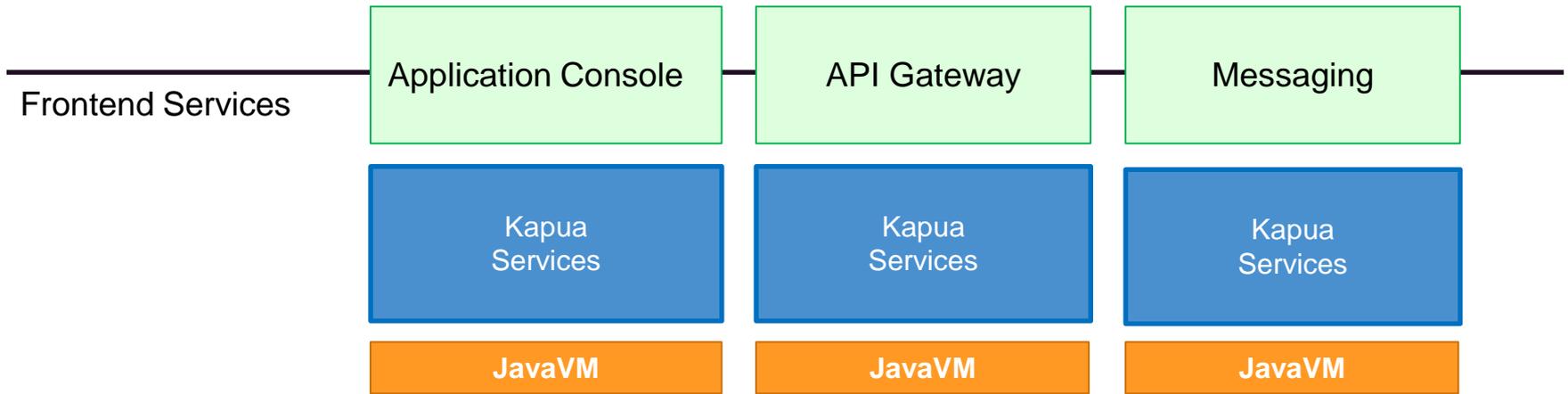
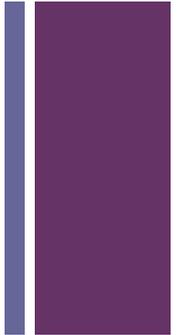
Authentication Service

Authorization Service



Eclipse Kapua

Current Deployment



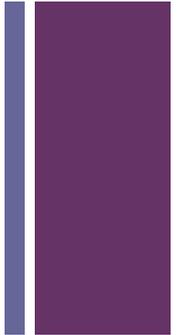
+ Kapua 1.0

Target Release - End of 2016

- Kapua Service
 - Datastore Service
 - Data Registry Service
 - Device Registry Service
 - Support for Tags
 - Support for Device Attributes
 - Provisioning Service
 - Usage Service
- Deployment
 - Docker Packaging
- Web Console
 - Dashboard
 - Data Service
 - Account Configuration
- RESTful APIs
 - Add APIs documentation
 - API Authentication
- Others
 - User Documentation
 - Unit/Integration Testing
 - Continuous Integration



+ Kapua Roadmap



- Add More Backend Services

- Event Management
- Device Batch Jobs

- Cloud Deployment

- Micro-services

- Future Integrations

- Device Connectivity
 - Eclipse Hono

- Software Distribution

- Eclipse hawkBit

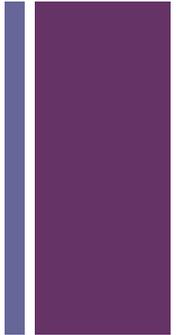
- Transport Protocols

- Eclipse Californium (CoAP)

- Device Management

- Eclipse Leshan (LWM2M)

+ Thank You! Next Steps



Fork me on GitHub!

- <https://github.com/eclipse/kapua/>
- Join the discussion:
 - kapua-dev mailing list
 - iot-dev mailing list
- Visit the web site:
 - <https://eclipse.org/kapua/>