KAA Platform

IoT Lab @ AUT
Amirkabir University of Technology
February 29, 2016

Outline

- What is Kaa ?
- Where is Kaa ?
- What does Kaa do for us ?

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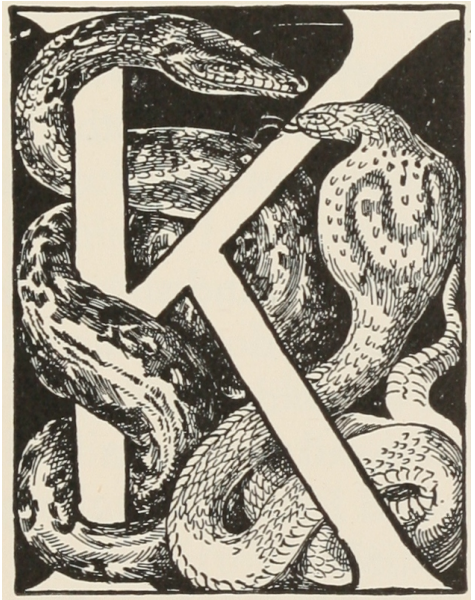
Kaa ?!

What is Kaa...

[Kaa]: 100% open-source Internet of Things middleware platform for everyone.

What is Kaa...

[Wikipedia]: Kaa is a fictional character that Rudyard Kipling describes him as an exceptionally long, yellowish Indian rock python.

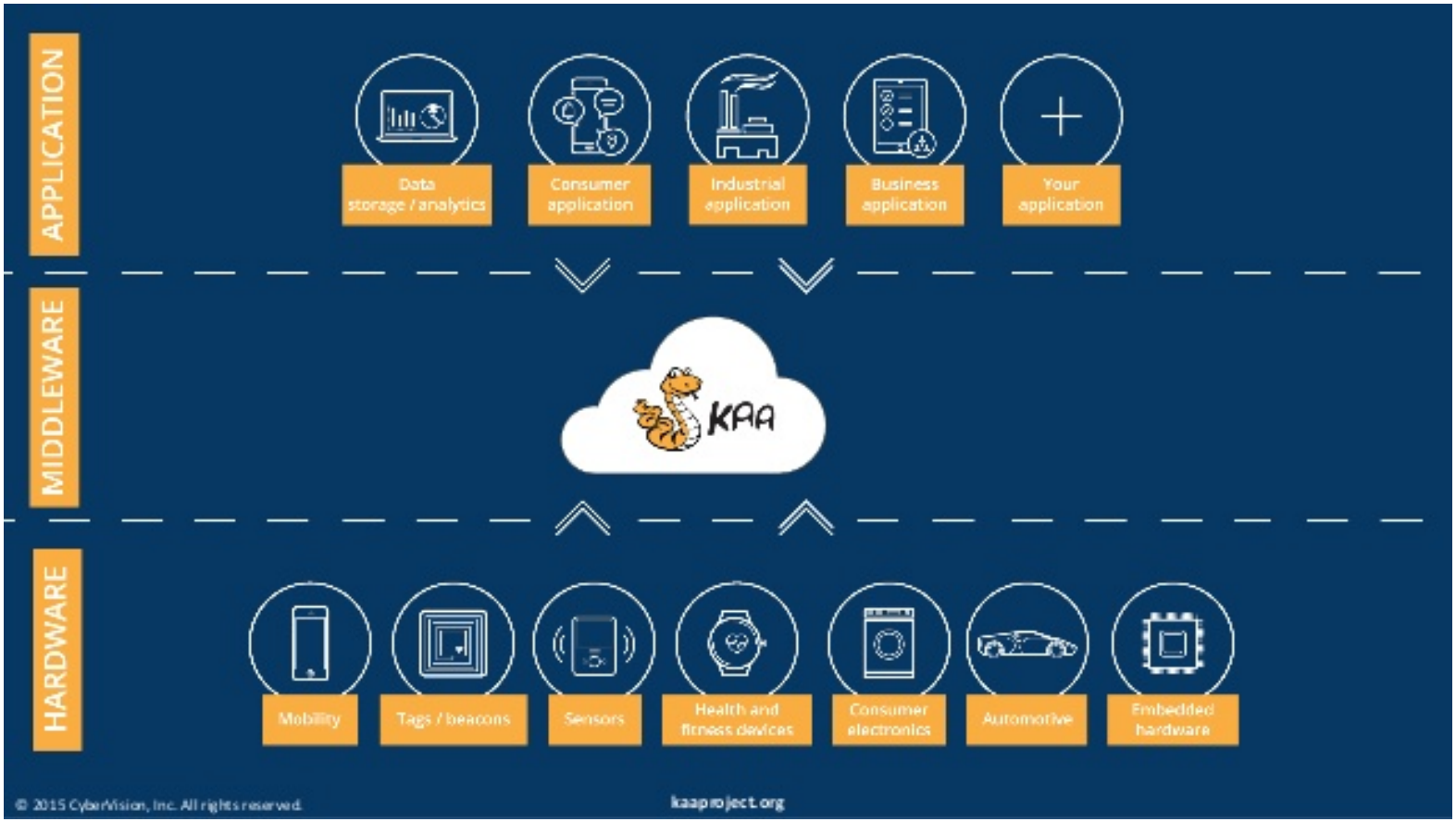


What is Kaa ?

Kaa is a middleware platform for rapid creation of IoT solutions.

- Reliable foundation for developing your connected products.
- Transport-agnostic link between the hardware and application worlds.
- Much more than just a message bus.
- Customizable middleware that implements necessary functional patterns for the IoT.
- Cloud enablement software for your hardware products.

What is Kaa ?


APPLICATION
MIDDLEWARE
HARDWARE
Data storage / analytics
Consumer application
Industrial application
Business application
Your application
KAA
Mobility
Tags / beacons
Sensors
Health and fitness devices
Consumer electronics
Automotive
Embedded hardware
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kaaproject.org

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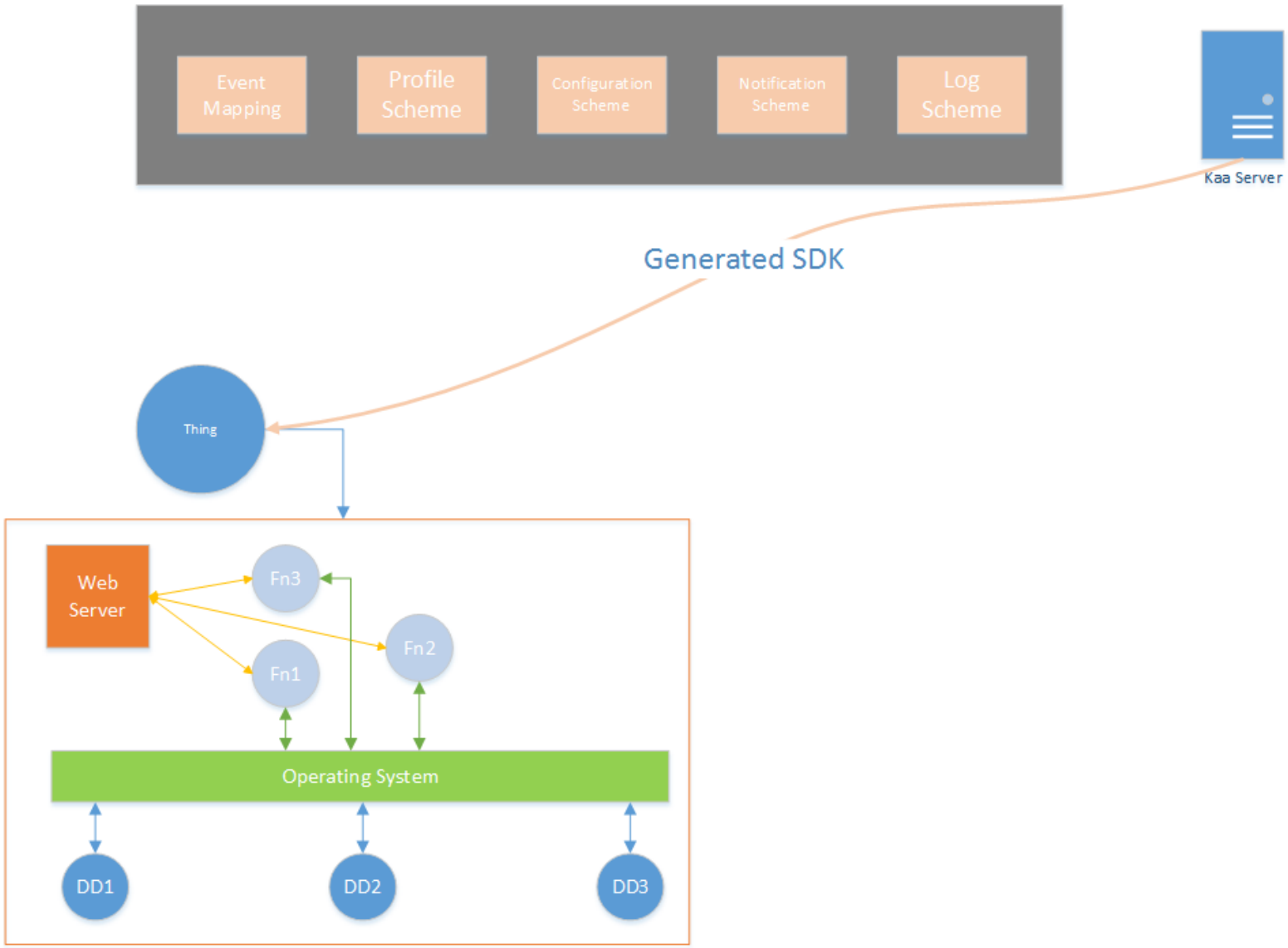
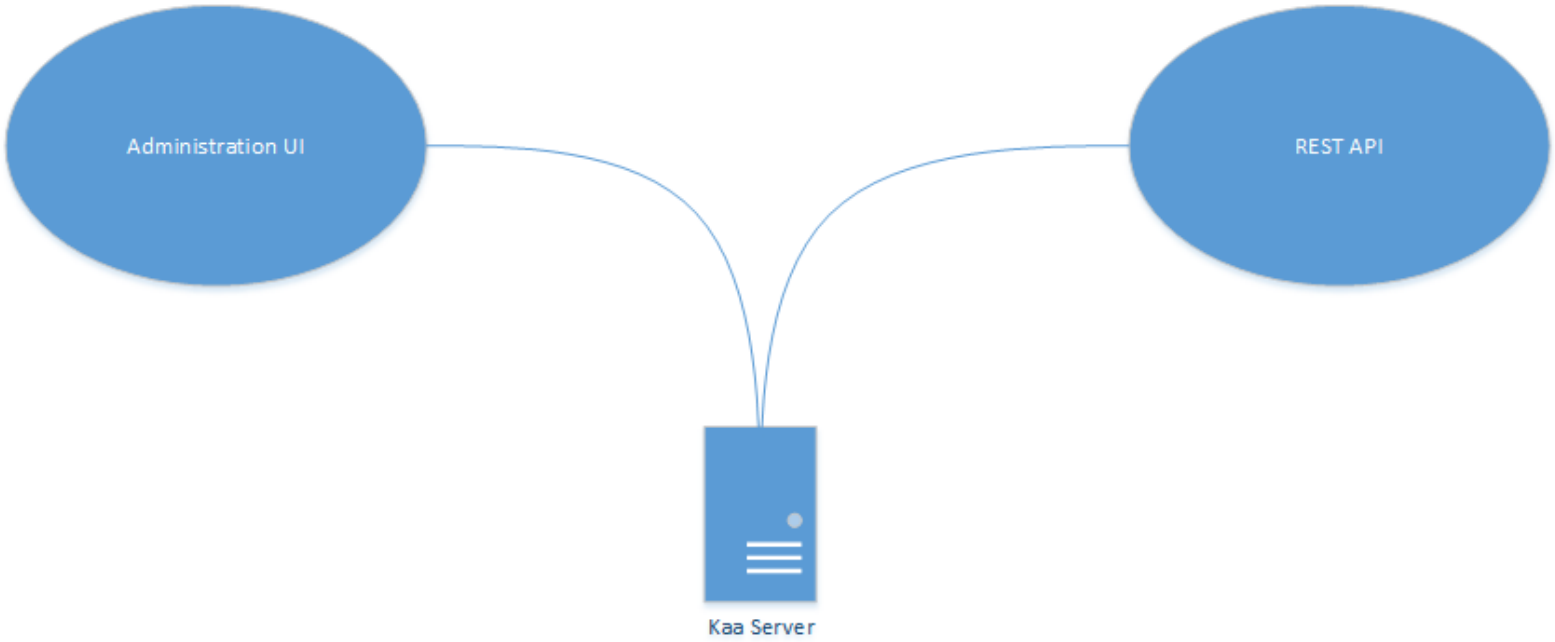
Thing Side


Event Mapping
Profile Scheme
Configuration Scheme
Notification Scheme
Log Scheme
Kaa Server
Generated SDK
Thing
Web Server
Fn3
Fn2
Fn1
Operating System
DD1
DD2
DD3

Administrator Side



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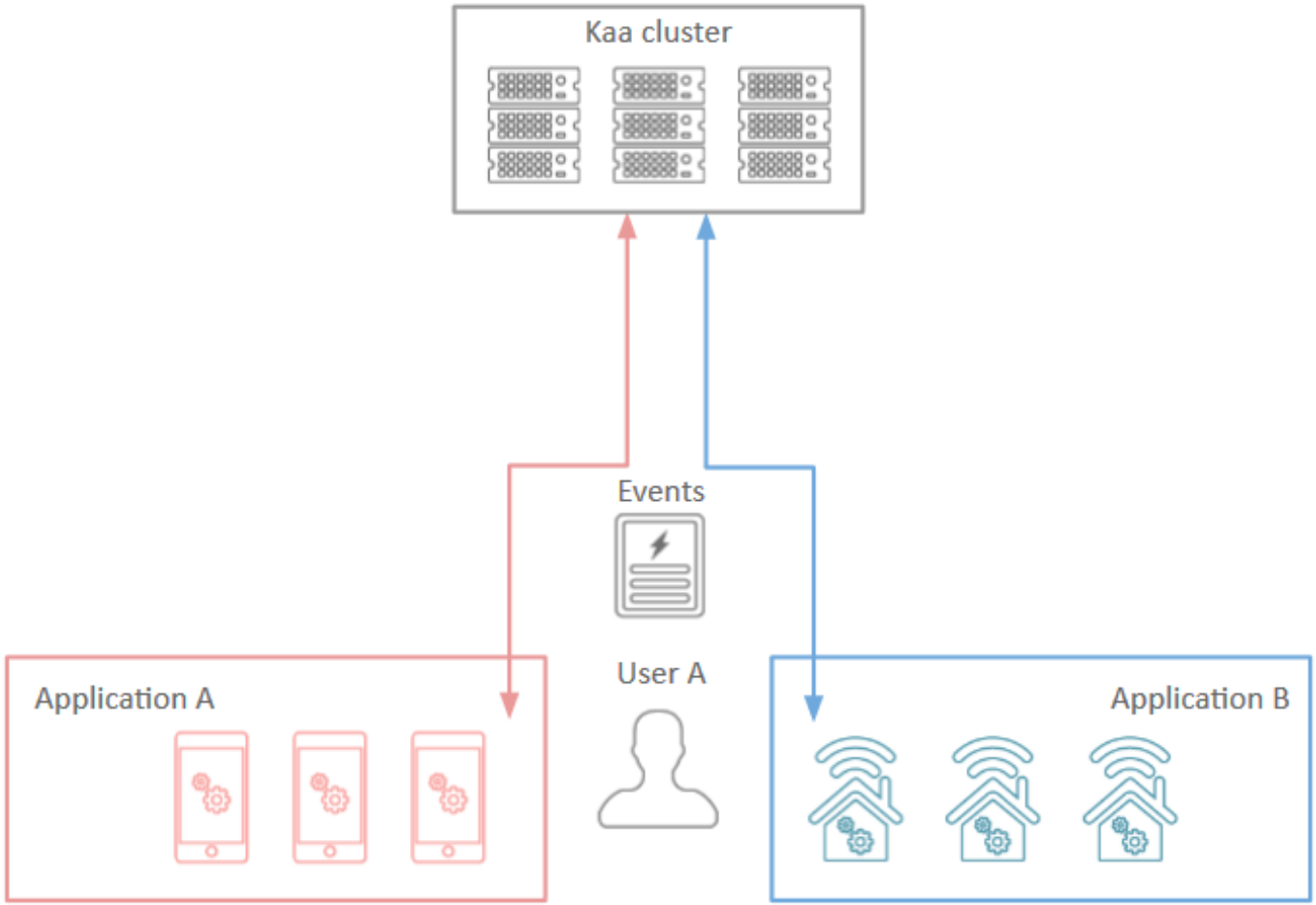
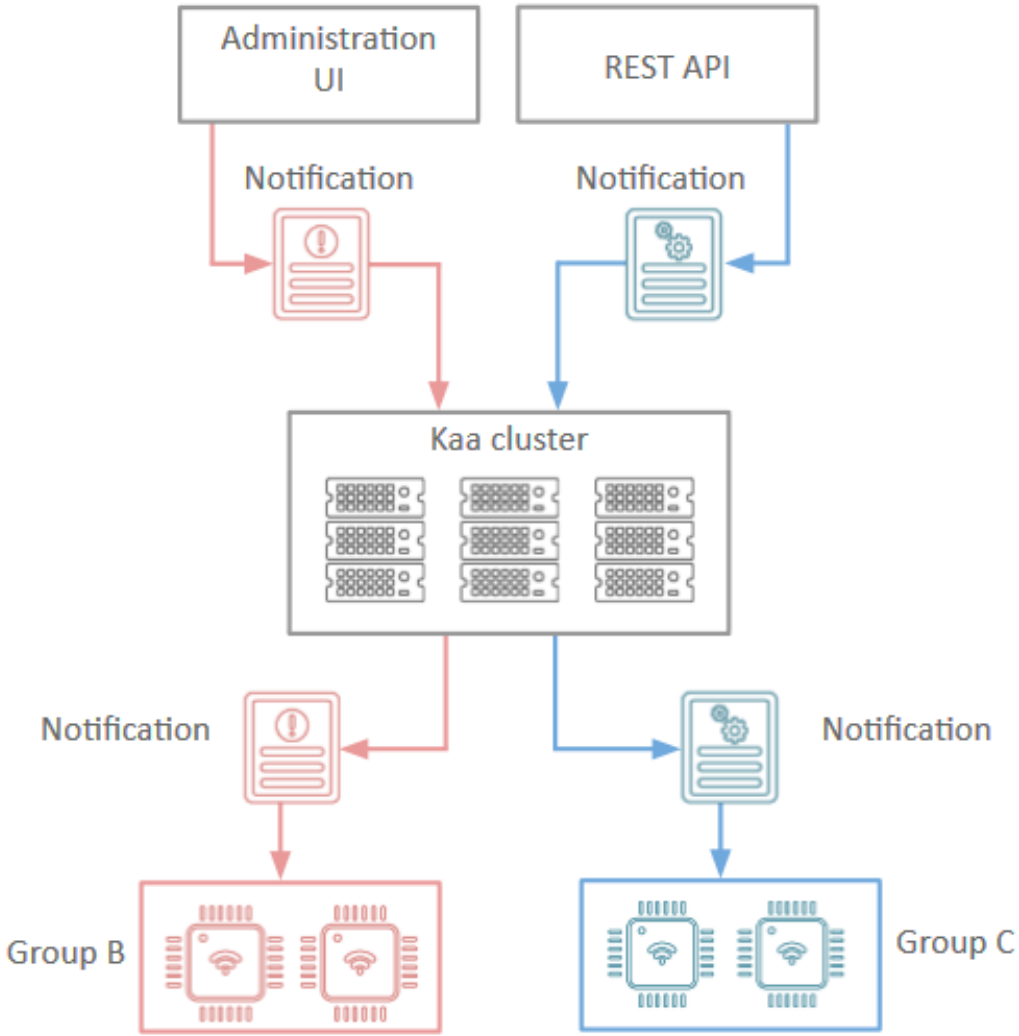
Messaging across endpoints



Messaging across endpoints

- The event class family can be used by one or multiple applications, thus the event can be shared between applications.

Notification