

# Partnering Ruscirs

Diya-node / diya-SDK devel



### Partnering ROBOTICS

### Goal

#### Diya-node

- Managment and Monitoring of the different programs/services running on the robot / the partnering server
- **Unified Interface** for accessing The robot's services (connection securing and user rights managment).
- → Base element for the futur mayanetwork

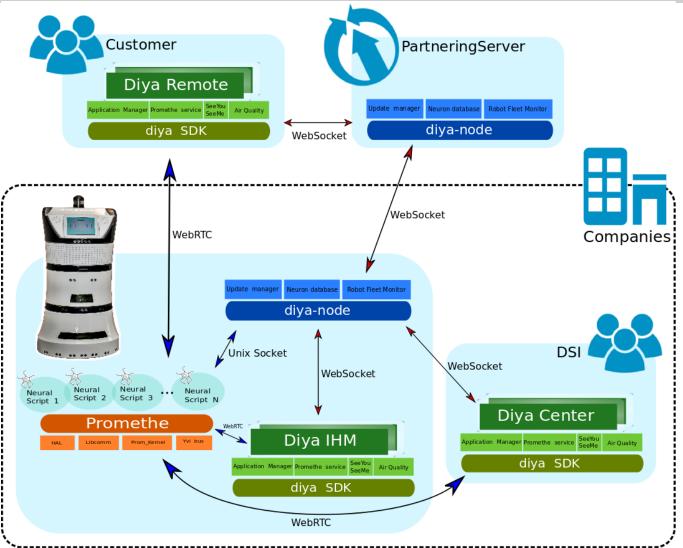
#### Diya-SDK

JSON Protocol for the communication between a diya-node instance and its services

- Low level Javascript implementation of that protocol.
- **High level Javascript implementation** of the services business logic.
- → Base element for the development of client Application.



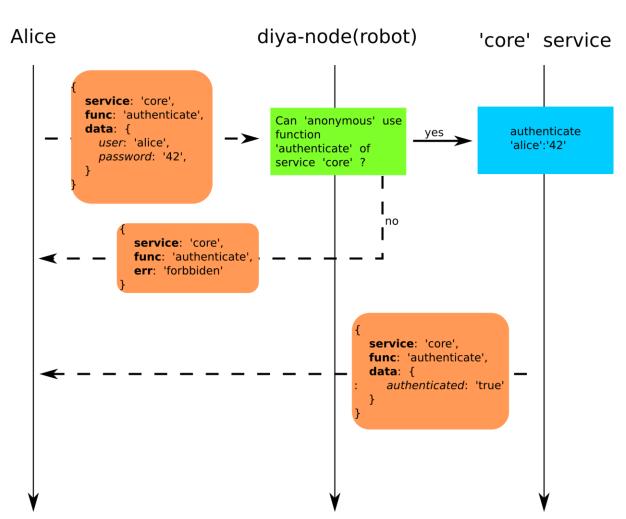
### Partnering Architecture overview





### Parknering

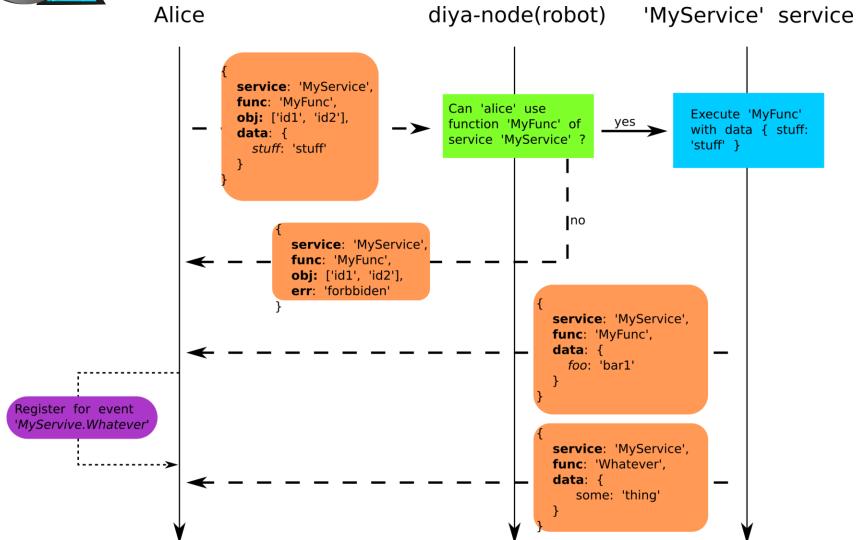
### Diya-protocol (1)





### Partnering

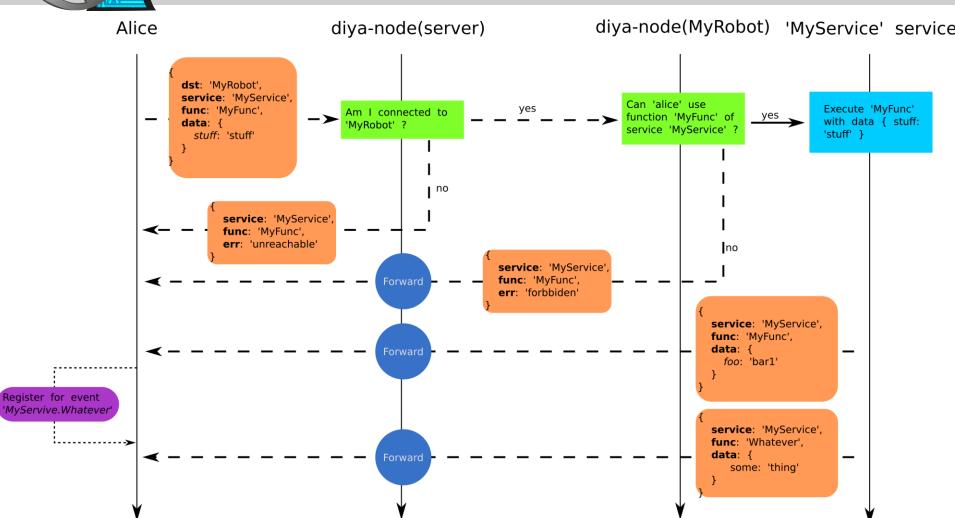
### Diya-protocol (2)





# Partnering

### Diya-protocol (3)





Diya-Node

Update manager

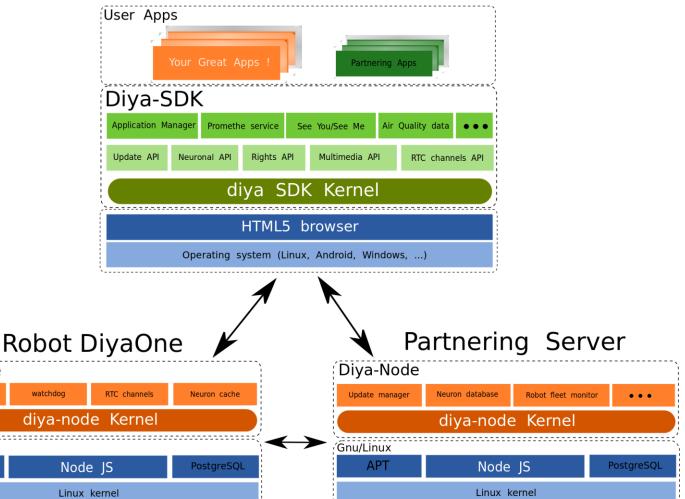
Gnu/Linux

**APT** 

watchdog

### Diya Software stack

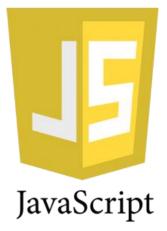
#### WebApps





### Partnering ROBUTICS

### Hipster technologies



- Functional language
- loosly typed
- object-oriented (kinda)
- Looks familiar but isn't



- Based on V8 JS engine (chrome)
- Asynchronous
- provide all necessary system APIs in a JS environement
- doesn't provide HTML5 JS APIs
- Lots of plugins



- HTML → content structure
- CSS → content layout
- JS → behavior
- A set of high level APIs providing various functionnalities (similar to JVM + Java APIs)
- -Multi plateform



## Partnering

### Hipster technologies





WEB COMPONENTS

**TEMPLATES** 

<template id="">
</template>

SHADOW DOM

div
 #document-fragment
 span

HTML IMPORTS

<link rel="import"
href="part.html">

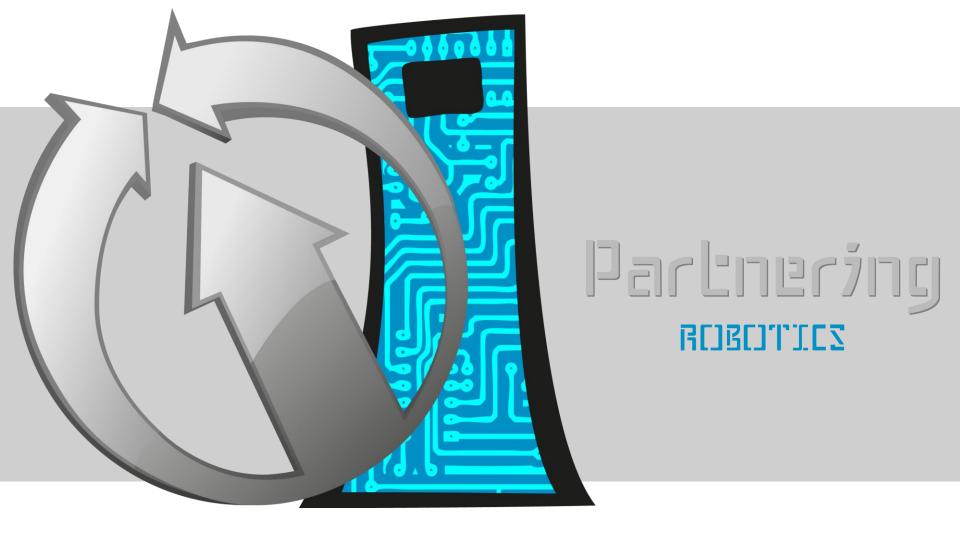
CUSTOM ELEMENTS

<my-elem> </my-elem>



https://bower.io

http://webcomponents.org



### Thanks