



**ALLSEEN
ALLIANCE**

Provisioning

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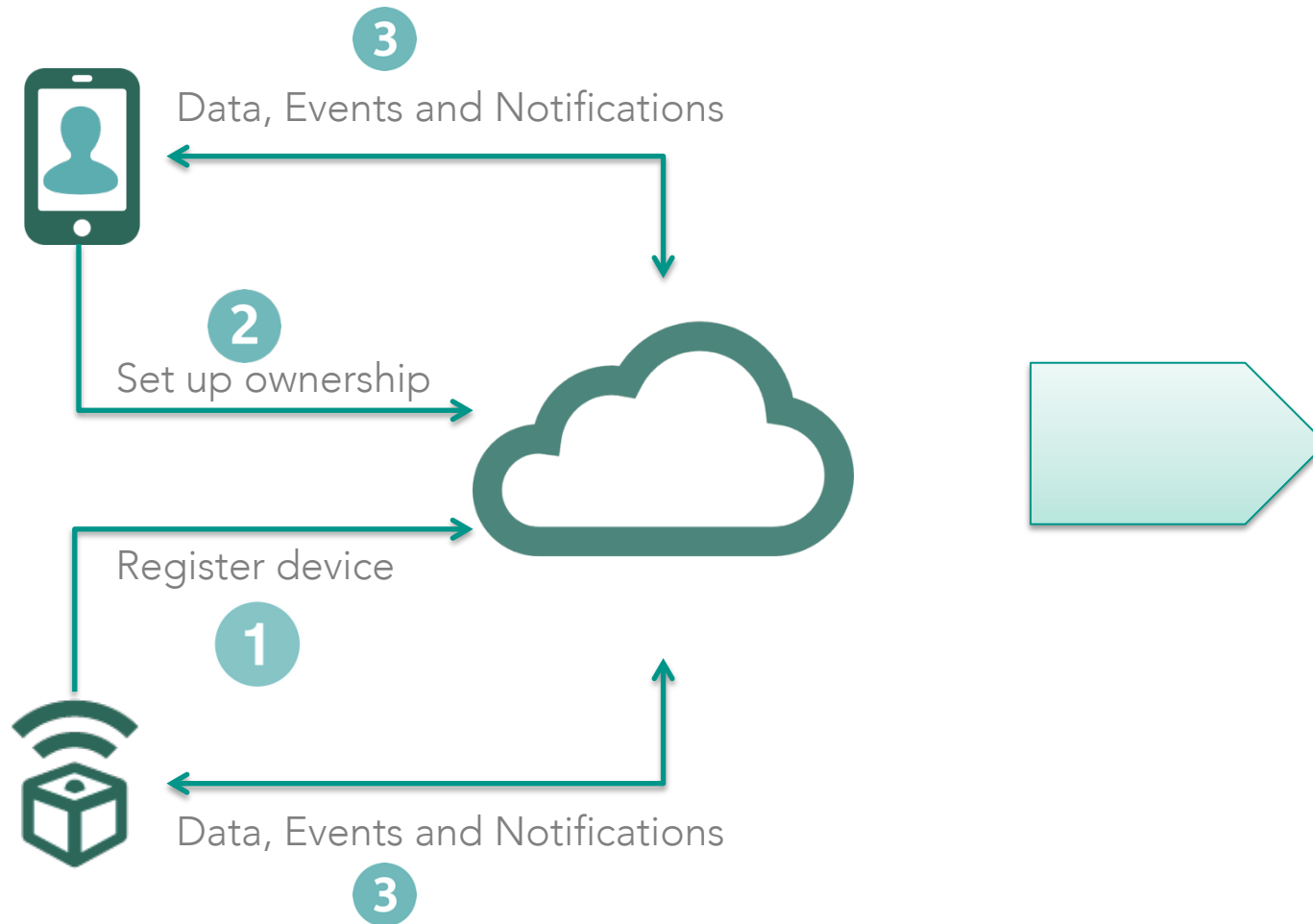
Agenda

1. **Project Intro**
2. Scope
3. Dependencies
4. Project Working
5. Timeline



Provisioning Project Intro

Typical Working – Things & Cloud



Telemetry Data Storage

Store transactional and sensory data, events

Analytics

Analyze data and events for gaining insights or other purposes

Upgrades

Push firmware and configuration upgrades to devices

Warranties

Enforce warranties and other such services

Diagnostics

Remotely diagnose problems and improve products and services

Control & Interoperate

Control devices from cloud and integrate with other services

AllJoyn Interfaces In This Process

AllJoyn Security

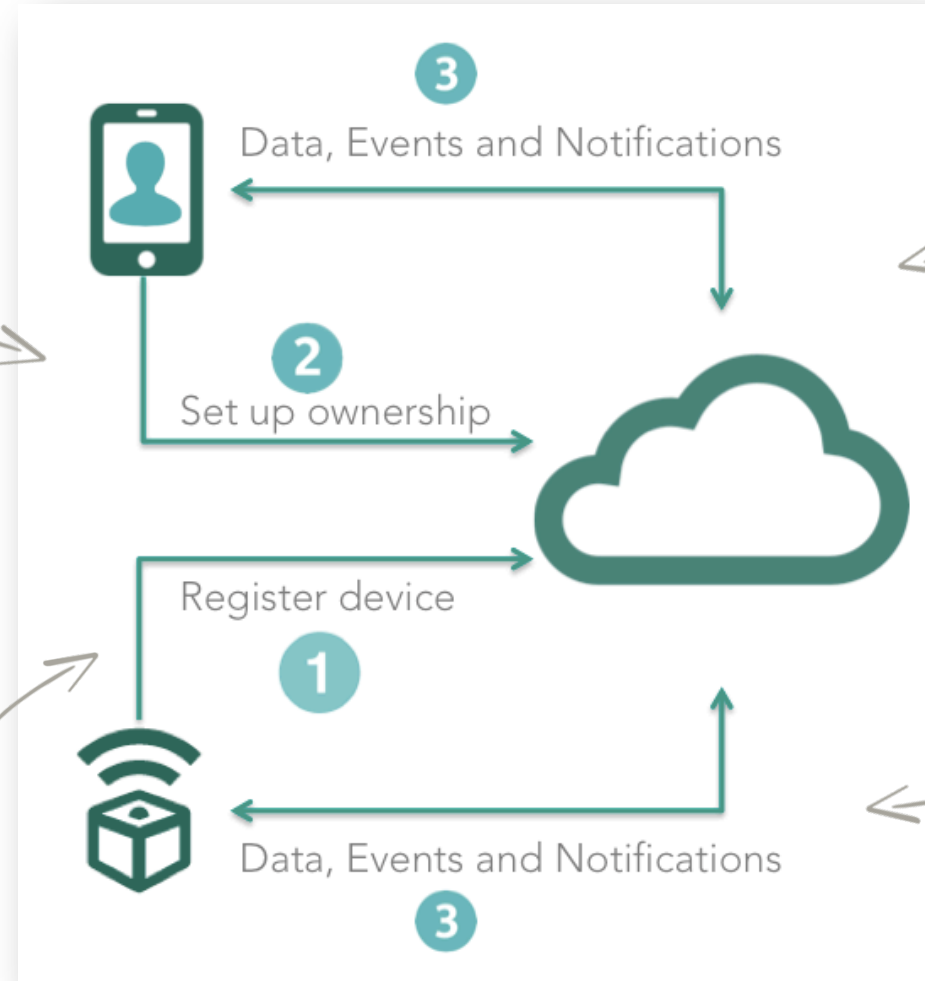
User claims device thru security and establishes cloud identity

AllJoyn About Feature

AboutData can be used when registering device in the cloud

AllJoyn Onboarding Service

When the signal indicating connection completed is received, start cloud onboarding



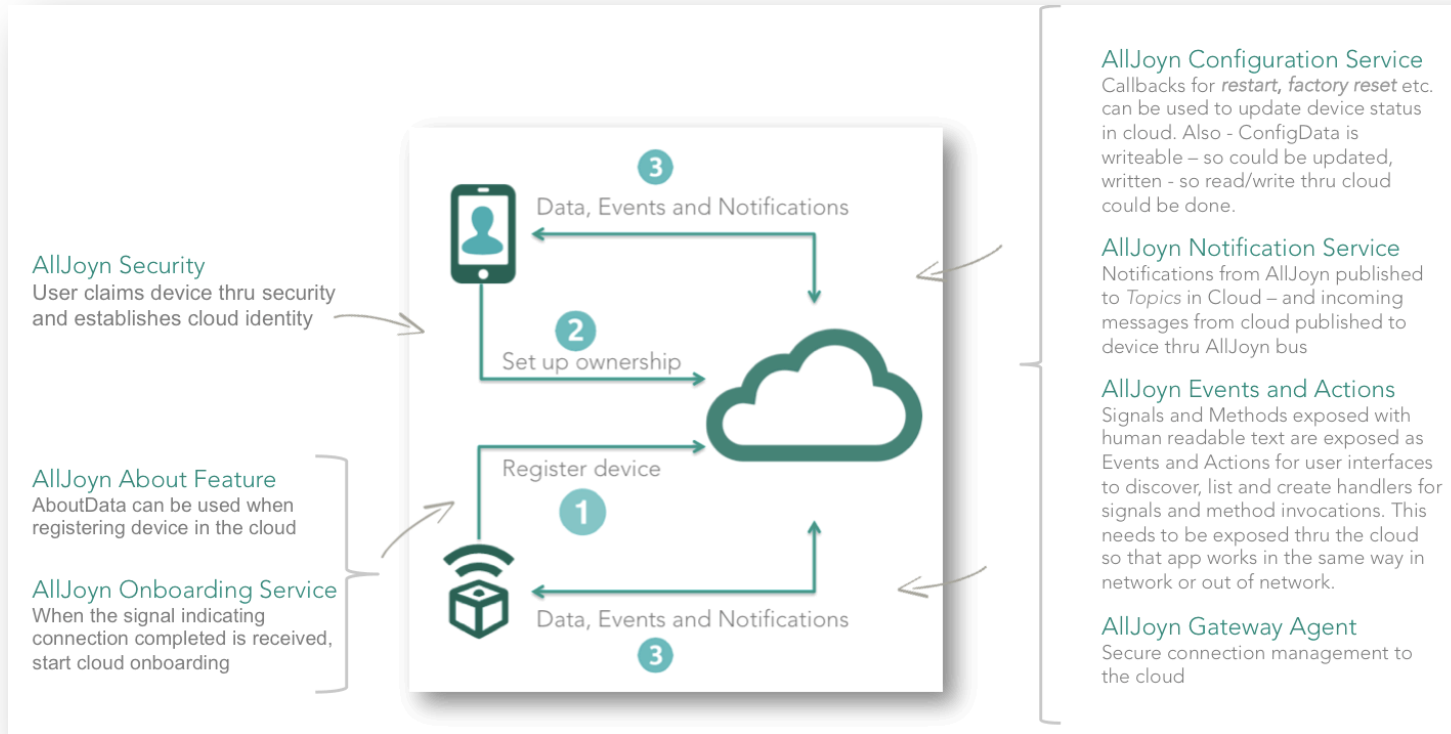
AllJoyn Configuration Service
Callbacks for *restart*, *factory reset* etc. can be used to update device status in cloud. Also - ConfigData is writeable – so could be updated, written - so read/write thru cloud could be done.

AllJoyn Notification Service
Notifications from AllJoyn published to *Topics* in Cloud – and incoming messages from cloud published to device thru AllJoyn bus

AllJoyn Events and Actions
Signals and Methods exposed with human readable text are exposed as Events and Actions for user interfaces to discover, list and create handlers for signals and method invocations. This needs to be exposed thru the cloud so that app works in the same way in network or out of network.

AllJoyn Gateway Agent
Secure connection management to the cloud

But What Is Missing Is A Standard Way To



- register a device in the cloud

Register an AllJoyn installation first and then various devices within the installation as needed

- send telemetry data to the cloud

Send data from various hooks (as described before) to the cloud the device is registered with

Note that receive from cloud doesn't need any special treatment.



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What will the provisioning working group work on?



Thing activation API

Thing telemetry API

Integration with Base Services

Integration with Core Framework

This will be the focus of the working group

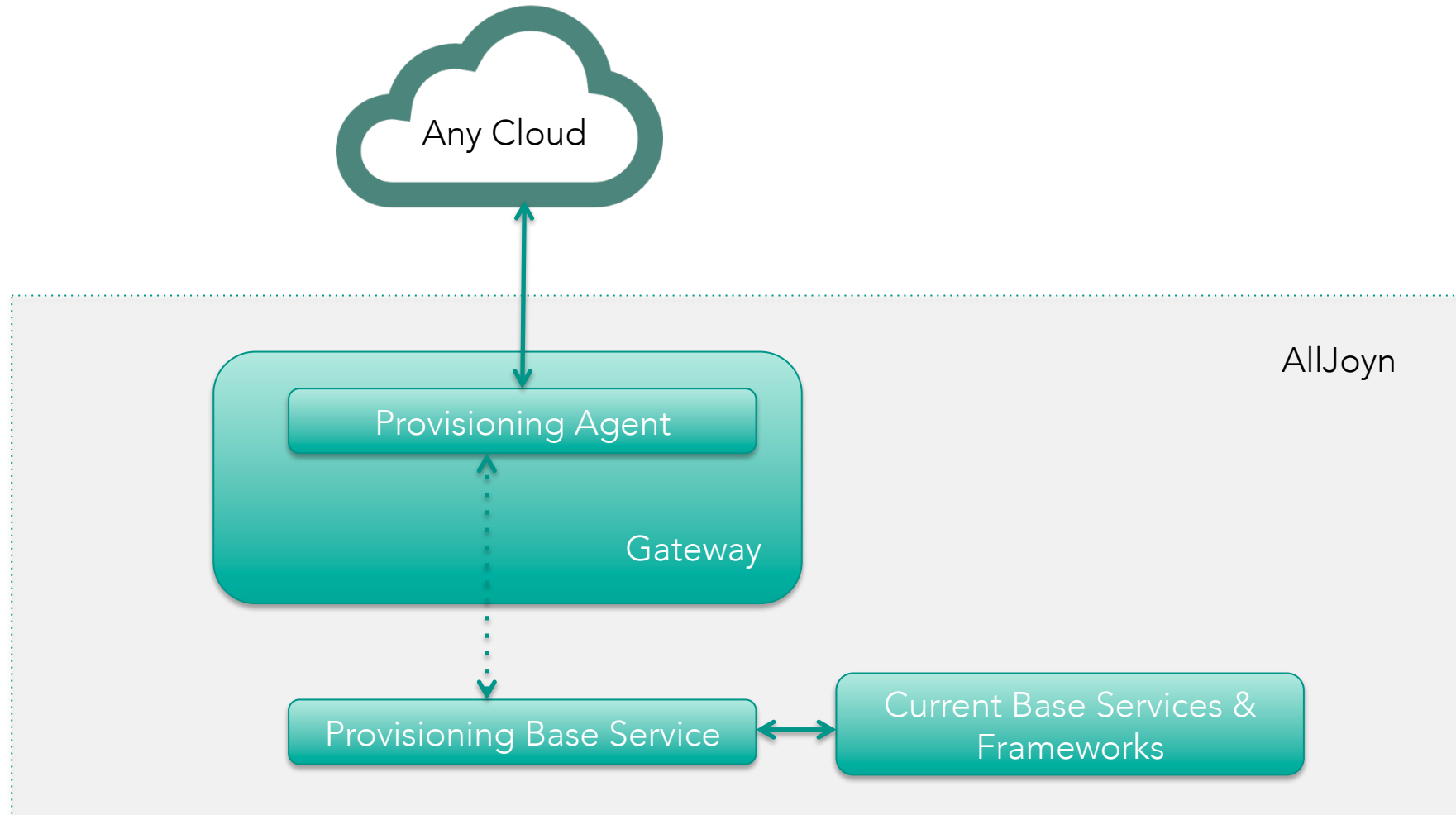
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How This Could Work





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Dependencies

- This spec depends on and integrates with the following core framework and base services
 - About Feature
 - Actions and Events
 - Onboarding Service
 - Notification Service
 - Gateway Agent
 - Security
 - Configuration Service



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Working Group

- Lead by: Kii
- Other Members: twobulls, <any others?>
- Working Process: TBD





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Timeline

- TBD