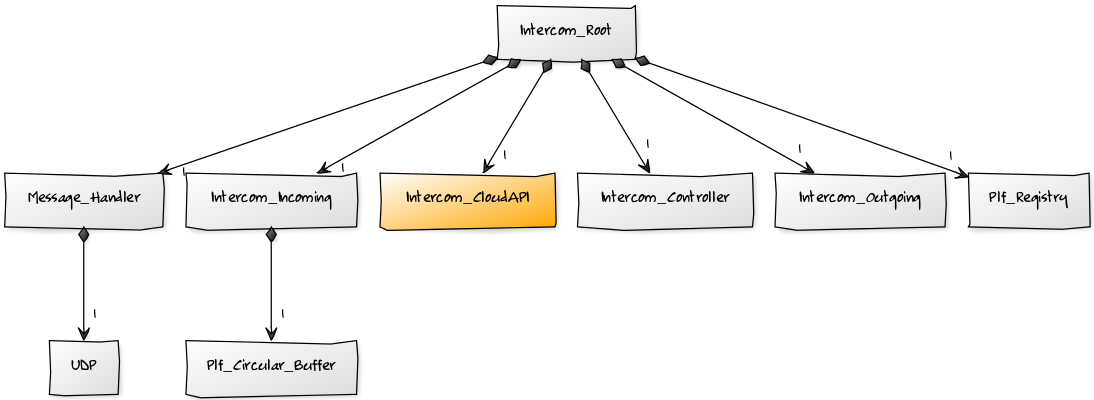
Hola Intercom Design

# Revision History

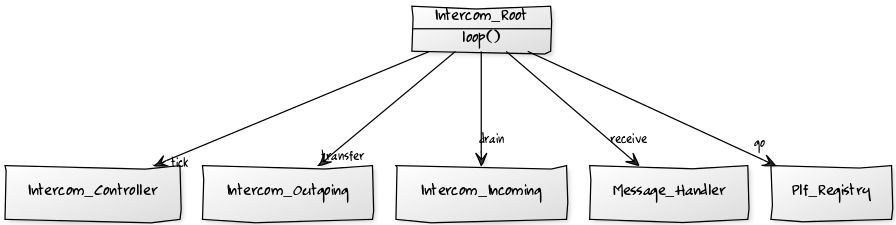
* 09/01/2017: 1st draft
* 09/18/2017: Added buddy\_id to cloud api
* 10/02/2017: Added echo request and reply messages

# Firmware

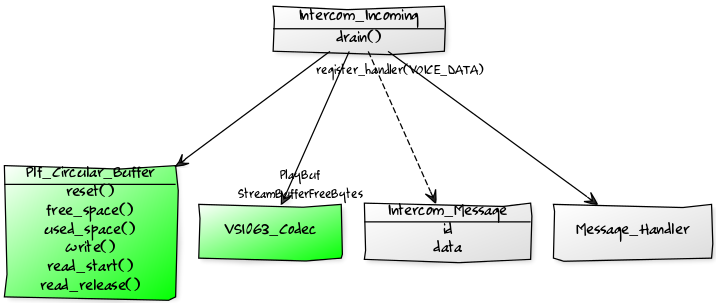
## Ownership



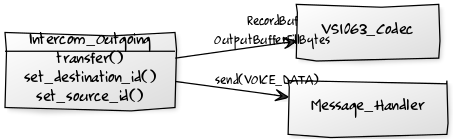
## Root



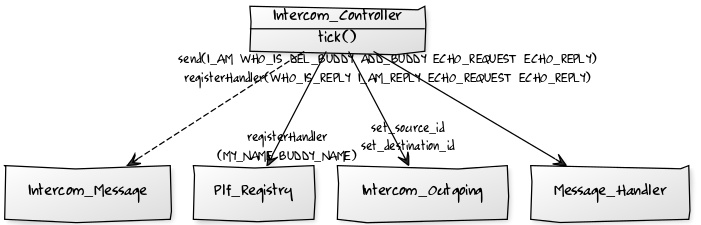
## Intercom Incoming



## Intercom Outgoing



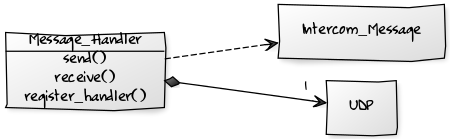
## Intercom Controller



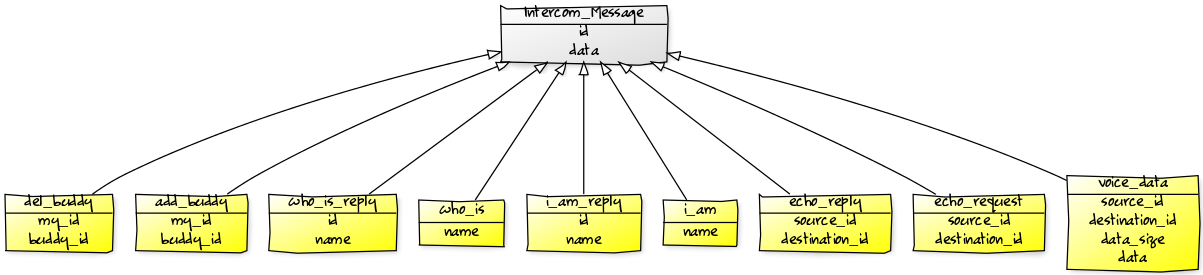
## Codec



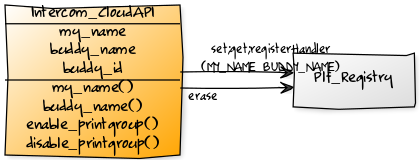
## Message Handler



## Messages



## Intercom Cloud API



# Server Side

**MSG\_TABLE**

msg\_id -> msg\_handler\_fun

**Intercom\_name\_to\_id\_table**

Intercom\_name -> intercom\_id

**Intercom\_id\_to\_intercom\_table**

Intercom\_id -> intercom

**Message\_Handler**

**Send()**

**Receive()**

socket

**Intercom**

**sendTo()**

**addBuddy()**

**delBuddy()**

Msg\_voice\_data\_handler

Msg\_i\_am\_  
handler

Msg\_who\_is\_  
handler

Add\_buddy\_  
handler

del\_buddy\_  
handler

1..1

n..1

1..1

Msg\_echo\_request\_data\_handler

Msg\_echo\_reply\_data\_handler