

HUBS

A SIMPLE RELAY PROTOCOL

SUBSCRIBE CONTROL FRAME		
64 BIT	64 BIT	64 BIT

0	FFFE	3746
SYS	SUBSCRIBE CMD	CHAN

TO HUB

DATA BROADCAST FRAME	
64 BIT	N BIT

3746	"HELLO!"
CHAN	PAYLOAD

TO HUB

HUBS

DATA FRAMES

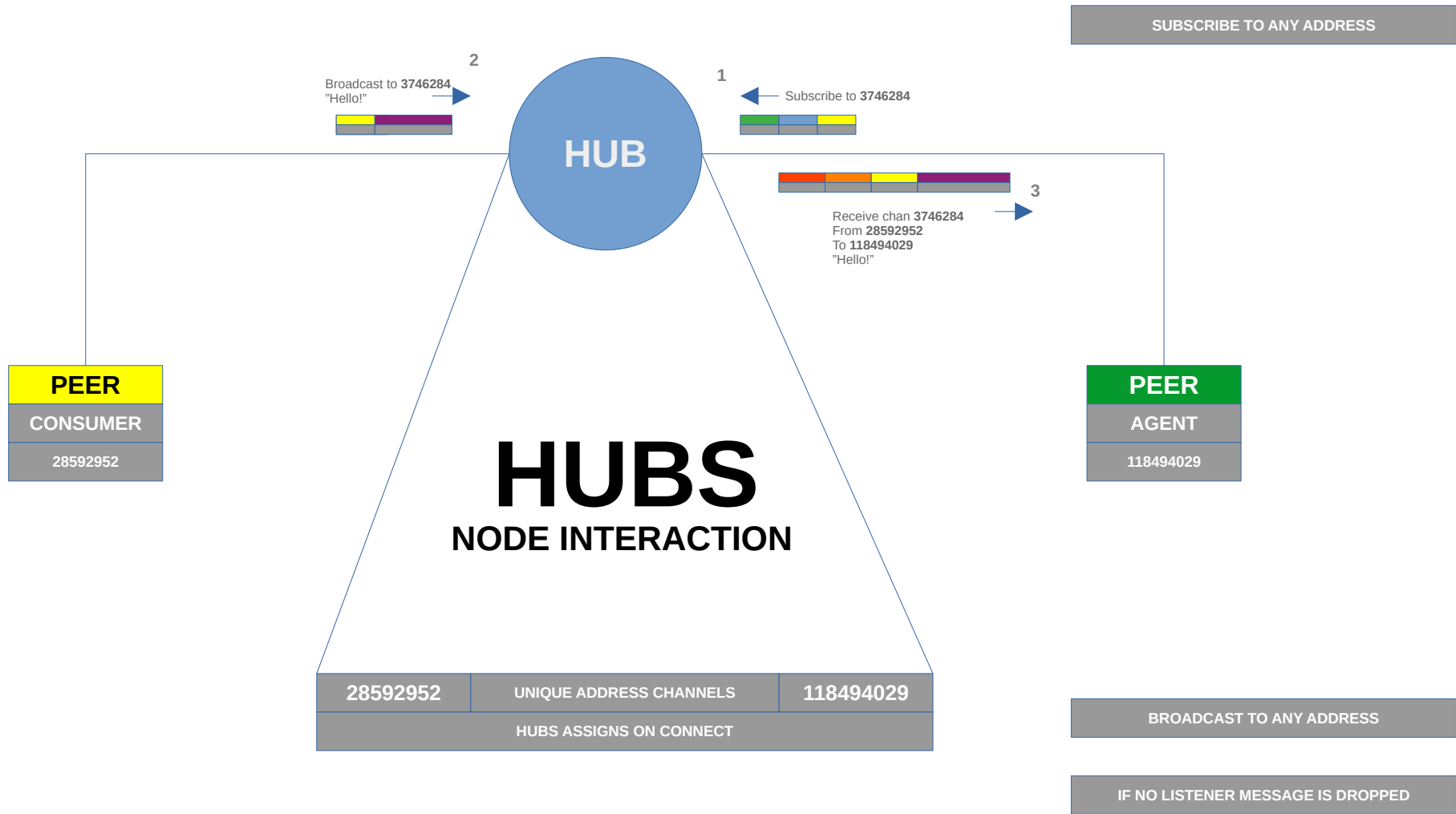
RECEIVE FRAME			
64 BIT	64 BIT	64 BIT	N BIT

2859	118	3746	"HELLO!"
FROM	TO	CHAN	PAYLOAD

FROM HUB

NUMERICAL ADDRESS FORMAT	
64 BIT	BIG UINT BE
174832482891859	

DATA FORMAT	
N BIT	USER DEFINED
"HELLO!"	



CONSUMER

```
//  
// consumer peer  
//  
const CHANNEL = 10240001n  
const URL = 'ws://localhost:9000'  
let hc = new HubClient()  
  
await hc.connect(URL)  
await hc.broadcast(CHANNEL, 'hello!')
```

HUBS WEBSOCKET CLIENT

SERVER

```
import HubServer from './lib/hub-server.js'  
  
let hs = new HubServer()  
hs.listen(9000) // listening on ws://localhost:9000
```

HUBS WEBSOCKET SERVER

AGENT

```
//  
// agent peer  
//  
const CHANNEL = 10240001n  
const URL = 'ws://localhost:9000'  
let hc = new HubClient()  
  
hc.addEventListener('broadcast', async e => {  
  const {detail} = e  
  const {from, to, channel, data} = detail  
  console.log(from) // 28592952  
  console.log(to) // 118494029  
  console.log(channel) // 3746284  
  console.log(await data.text()) // hello!  
})  
  
await hc.connect(URL)  
await hc.subscribe(CHANNEL)
```

HUBS WEBSOCKET CLIENT

HUBS

EXAMPLE CODE

NODES ARE PEERS OF HUB SERVER

CONSTELLATION

HUBS

RELAY CONSTELLATION

HUB

PEERS

