

# BIG IoT Open Call 2 midterm status for Flowhub



Jon Nordby, 26 September, 2018

# Extension objectives

Simple to build **web** applications  
based on BIG IoT offerings

- Using standard JavaScript in browser
- Using Flowhub+NoFlo visual programming

# D1: Browser support in bigiot-js

## Browser support finalized



jonnor released this on Aug 7 · [3 commits](#) to master since this release

### ▼ Assets 2



[Source code](#) (zip)



[Source code](#) (tar.gz)

bigiot-js now works in the browser (consumer only). It can either be built with webpack and NPM, include the pre-built JS library via a script tag.

Note that for now CORS proxy is needed. A service that can be used for testing has been setup, recommended software for use in production.

For documentation see the README and example code

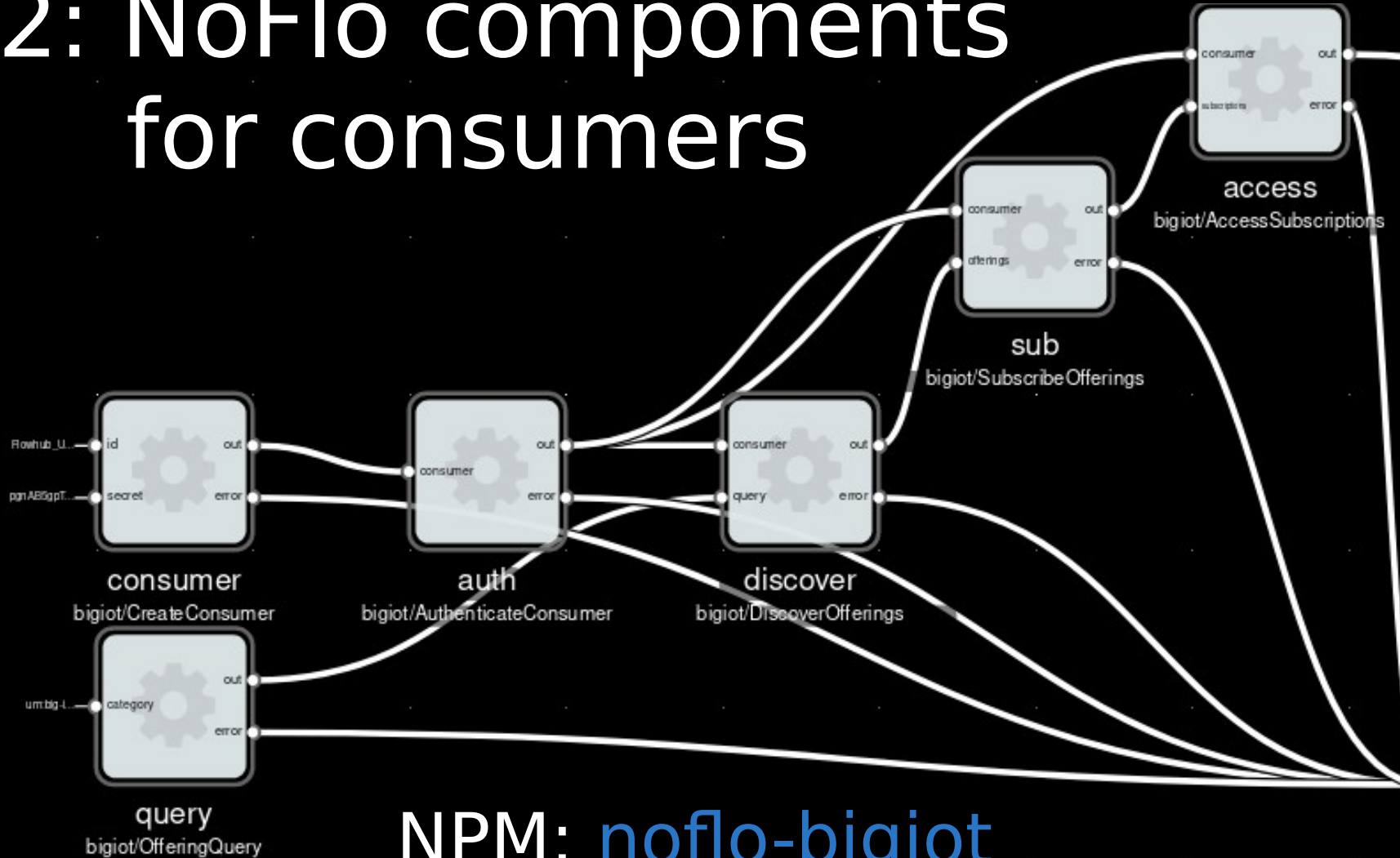
NPM: [bigiot-js](#)

# bigiot-js use in browser

Same API as for Node.js  
+ supports a CORS proxy server

```
const corsproxy = 'https://bigiot-cors.herokuapp.com';  
const consumer = new bigiot.consumer(id, secret, market, corsproxy);
```

# D2: NoFlo components for consumers



# I1: Marketplace API not CORS enabled

❌ Failed to load <https://market.big-iot.org/accessToken?clientId=FlcB5gpT5Cy0djyd0zulw%3D%3D>: No 'Access-Control-Allow-Origin' header therefore not allowed access. If an opaque response serves your ne resource with CORS disabled.

- Gitlab: [marketplace#42](#)

# I2: Marketplace SSL soon untrusted

`https://market.big-iot.org will be distrusted in M70. consumer loading these resources. See https://g.co/chrome/symantecpkicerts f`

- Chrome 70 will remove certificate.
- Release: Sept 13 – Oct 15
- Gitlab: [marketplace-portal#44](#)

# I3: Most offerings not browser ready

Using defaults in Java Provider:

- Self-signed SSL certificate
- CORS headers not enabled



# Enable CORS for offerings

```
((EmbeddedSpark)provider.getEmbeddedServer()).enableCorsAll();
```

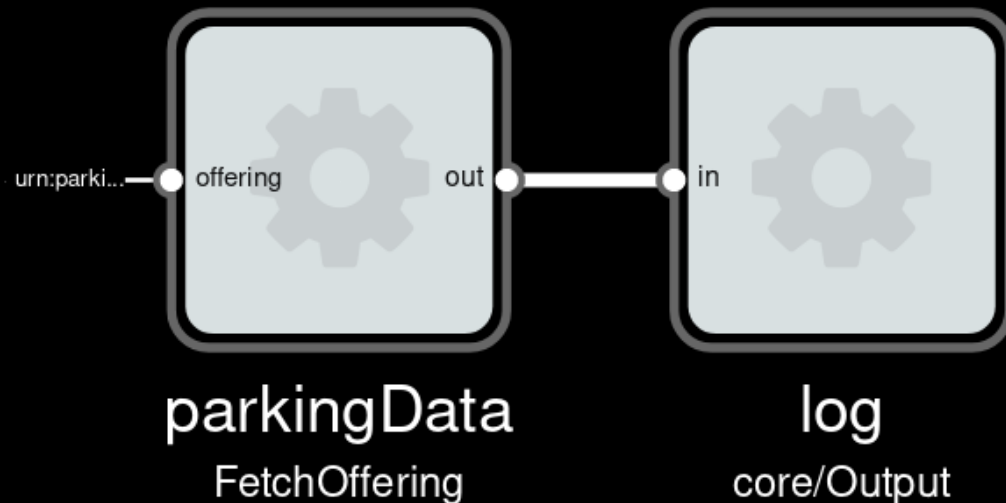
# Setup SSL for offerings

- A) Setup own cert in Java Provider lib (?)
- B) Use a HTTP proxy (nginx/Apache...)

# D3: “Driver” Parking space app

Builds on D1: [bigiot-js](#) and D2: [noflo-bigiot](#)

Done: Project skeleton, fetching data



TODO:  
App/User Interface

# Summary

- Deliverables 1,2 are completed:  
Can develop BIG IoT apps in browser  
**BUT** must use CORS proxy
- Deliverable 3 on schedule for second half
- **WANT: Marketplace CORS and SSL fixes**
- Nice-to-have: More browser-friendly offerings