

# 2023-02-13 Architecture WG Meeting Notes

## Date

13 Feb 2023

Zoom Meeting Information:

Monday, February 13, 2023 at 11:30am PT/2:30pm ET.

Join Zoom Meeting

<https://zoom.us/j/7904999331>

Meeting ID: 790 499 9331

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## Attendees:

- Jeff Braswell (openIDL)
- Sean Bohan (openIDL)
- Nathan Southern (openIDL)
- Tsvetan Georgiev (Senofi)
- Ken Sayers (AAIS)
- Mason Wagoner (AAIS)
- Dale Harris (Travelers)
- Yanko Zhelyazkov (Senofi)
- Peter Antley (AAIS)
- Faheem Zakaria (Hanover)
- Ash Naik (AAIS)
- Brian Hoffman (Travelers)

## Agenda:

- Update on ND POC (KenS)
- Update on openIDL Testnet (Jeff Braswell)
- Update on internal Stat Reporting with openIDL (Peter Antley)
- Update on Infrastructure Working Group (Sean Bohan)
- ETL Discussion Continues (PeterA)
- MS Hurricane Zeta POC Architecture Discussion (KenS)

- AOB:
- Future Topics:

## Notes:

### ND Uninsured Motorist

- All data from all carriers and DOI
- Doing data call and DOI will work together on report
- Report in the next day or so
- 9 Groups, 11 Companies + ND DOI + ND DOT

### Update on openIDL Testnet (Jeff Braswell)

- Progress on Testnet continues
- Conversations with Hartford and Travelers for test data
- Opportunity to use new tools like Fabric Operator to make setting up more efficient
- Moving stat reporting farther down the road, solve issues for carriers, security issues topics to be address

### Update on internal Stat Reporting with openIDL (Peter Antley)

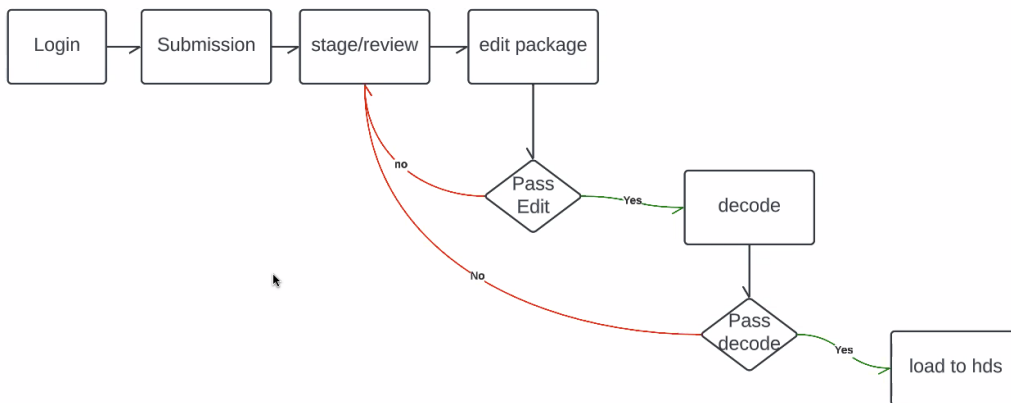
- Going well, focused on ETL
- Mason continues to work on code to decode stat records, urrently on Mobile Home Owners
- PA efforts on ETL
- Near future: interested in getting internal stat reporting, get data into node, next 6 months
- Big changes: looking to bring up node in near future, best way to do that - waiting on Operator to be functional

### Update on Infrastructure Working Group (Sean Bohan)

### ETL Discussion Continues (PeterA)

- Mechanism to log in, mechanism to submit data
- Proposed discussion flow:

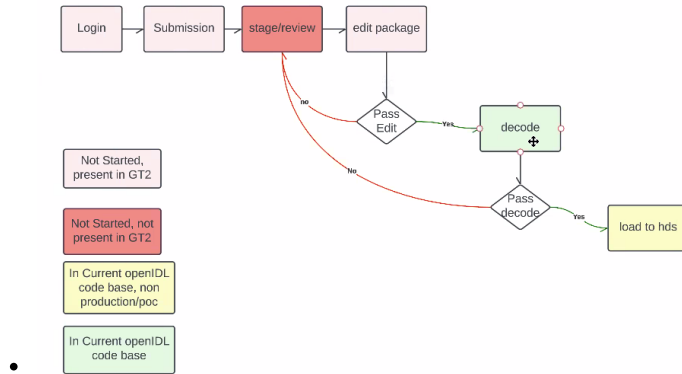
### openIDL ETL Workflow



- Carriers submit stat data via SDMA
- Run edit packages against those coded messages
- after edit packages with SDMA, get go/no go decision (pass / fail)
- Submit if passed, review if failed
- Next stage is DECODING if passed
  - (change 01 to Alabama)
- error checking within decodes
- if decode works, edits work, move-load into HDS
- Last week discussion



### openIDL ETL Workflow w/ status



### SDMA vs GT2

	SDMA	GT2
Infrastructure	<ol style="list-style-type: none"> <li>1. Oracle</li> <li>2. TomCat</li> <li>3. Java</li> <li>4. Ec2</li> </ol>	<ol style="list-style-type: none"> <li>1. MySQL/Aurora</li> <li>2. API Gateway</li> <li>3. SQS</li> <li>4. Cognito</li> <li>5. EFS</li> <li>6. S3</li> <li>7. Step Function/Lambda</li> </ol>
user Interface	<ol style="list-style-type: none"> <li>1. Login</li> <li>2. Data Submission</li> <li>3. Interactive error reporting</li> <li>4. Graphical Data insights.</li> </ol>	<ol style="list-style-type: none"> <li>1. Login</li> <li>2. Data Submission</li> <li>3. Txt Report based error reporting</li> </ol>
load speed	Days	Half hour
Primary Function	<ol style="list-style-type: none"> <li>1. Recieve Submission</li> <li>2. Run Edits</li> </ol>	<ol style="list-style-type: none"> <li>1. Recieve Submission</li> <li>2. Run Edits</li> </ol>

- SDMA functalnty with GT2 Speed may be a goal - is Aurora off the table? use aurora?
- could run postgres with aurora
- Possible?
- Building a reference implementation, something works, not neccessarily most robust but could build it out, something as an option
- get IT folks to run in environment, as a service?
- not core component of openIDL, DIY
- Aurura - paid tool, locks into AWS, ref imolementation on AWS, lanbdas, step functions, etc. - all reasonable things to put into Ref Implementation?
- Issues?
- Aurora supports Postgres SQL
- Moe lanbdas improving, horizontal scaling makes it possible, splitting across lambdas, stripped down SDMA, loses some functionality
- UI and interaction between errors and stuff, both but mostly lambdas
- no sequential dependency on records
- dev has said Auroria allowed massive parallelization of IO, built for serverless, high horizontal scaling
- How long is too long for a load (time it takes to load data into the db)? 6 hours for 30MM records? fro you hit submit until it is all there
- most use cases, daily upload enough
- IICMBA (ND) use case, check for "is this car insured right now" very diff use case
- IICMBA competes with ND POC is trying to do
- Issues with tech stack they are targeting?
- How if a carrier isn't on AWS? Subset as a reference to be added to it? There is a corresponding tech stack
- good azure dev spends time with PA could translate
- keeping DB/Postgres the same
- so many interdependencies

Time	Item	Who	Notes

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Documentation:

Notes: (Notes taken live in Requirements document)

Recording:



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