2023-03-27 Architecture WG Meeting Notes

Date

27 Mar 2023

ZOOM Meeting Information:

Monday, March 27, 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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>
> openIDL

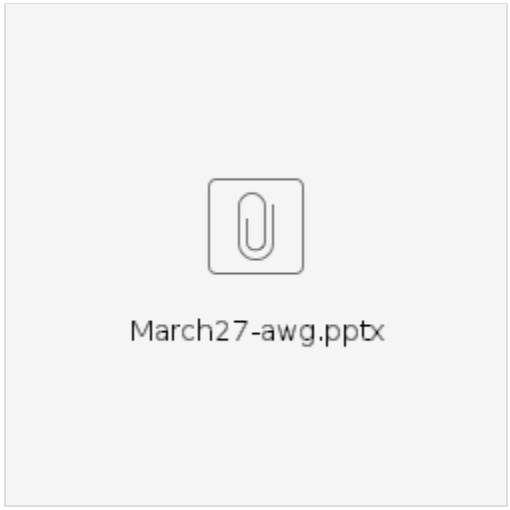
Attendees:

- Sean W. Bohan (openIDL)
- Allen Thompson (Hanover)
- Mason Wagoner (AAIS)
- Peter Antley (AAIS)
- Justin Cimino (AAIS)
- Brian Mills (AAIS)
- Jeff Braswell (openIDL)
- David Reale (Travelers)
- Joseph Nibert (AAIS)
- Ken Sayers (AAIS)
- Yanko Zhelyazkov (Senofi)
- James Madison (Hartford)
- Brian Hoffman (Travelers)
- Dale Harris (Travelers)
- Satish Kasala (Hartford)
- Tsvetan Georgiev (Senofi)
- Aashish Shrestha (Chainyard)
- Faheem Zakaria (Hanover)

Agenda:

- JamesM Discussion: coding & operating standards: queries, null, etc.
- 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)
- MS Hurricane Zeta POC Architecture Discussion (KenS)
- Architecture Decision Capture Process (KenS) - Discussion
- AOB:
- Future Topics:

Notes:

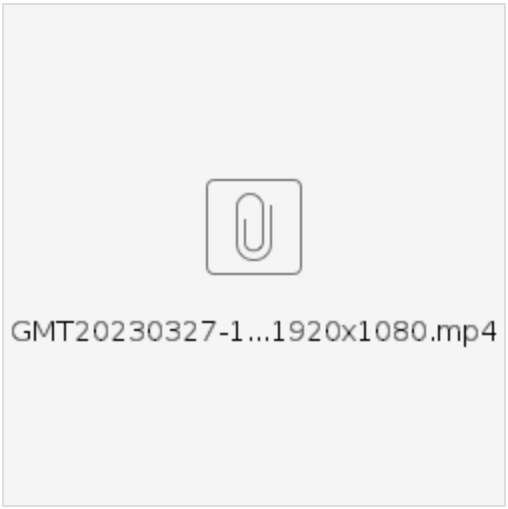
- PA
- 

    - ingestion format conditional
    - https://github.com/openidl-org/openidl-main/tree/awg/openidl-statplans/pa
    - AWG branch, stat plan as a PDF
    - stat plan, going forward tyalking about reg reporting, stat stuff might be a buzzword
    - recycling auto stat plan, openIDL reg reporting standard for personal auto
    - personal and commercial auto but for this personal
    - big ?: decoding and how we go about it
    - link 1 - stat plan PDF
    - stat record broken out by column
    - join on all codes and ref tables
    - personal auto stat view - not claim or prem specific yet
    - SDMA and GT2 - stor all in one table
    - Source of truth is stat plan instead of sql
- James A
    - modeling group
    - 5-6 questions, arch in nature
    - 1. lookup tables in code, as opposed to more maintainable
    - location of record for these codes, in the JSON and those are the official locations of codes and values
    - comfortable with json as place to maintain it
- KS
    - interaction points of business people?
- JM
    - maintain lookup tables in excel, can send to anyone and they can navigate - intermediate tech and business
    - helps
    - in json and modify
    - lookup tables change at same freq as code
    - able to release independently
    - BA/QA type roles - maintaining it
- PA
    - utilizing flyway to manage db
- JN
    - biggest concern is lookup tables - for insert of data only
    - if we know version 001, ABS table will only have 3 records, if we want to add more things, vers 00.2 -would know by looking at schema history - truth kept on DB and not on some obscure file
- KS
    - two things - schema and data
    - for ref tables, data is much less changeable, doesnt change as often, more often than schema
    - wouldn't use flyway for transactional data (states, lookups, never transax)
    - is Flyway meant to be applied to data as much as schemas? more schema management than data migration
    - lost with schema vs data
    - new code for personal auto? needs to go to every carrier

    - new code? does change data
- JN
    - define as a team how we handle it - dont care in DBMS versioning? then pull it out - depends on how strict
- KS
    - when do customers participarte in management of lookup data
- JM
    - some ways, ref data behaves like code
    - rows part of schema seems reasonable
    - programmer go into json to modify it?
- PA
    - depends on budget
    - could make excel and easily pull json out of excel
    - need to gen sql file
- KS
    - process involved - cost in distribution, governance, approvals, acceptance of changes not changes themselves
    - if a programmer vs someone loading an excel = trivial process cost
- PA
    - how much harder to use excel vs configs? API to access it?
- JM
    - if driivng off json files less worried
    - reduce programmer jobs due to expense
- PA
    - coverages, based on codes, categories
    - some get weird, multistate for 47 states, code gets
- JM
    - still need to be able to read json
    - versioning is intriguing
    - code that does inserts
    - released with everything else
    - how would flyway treat lookup tables and schema-ized notions
    - run into issues - modify to, make script with updates
- JN
    - how we decide to do versioning, all we have to do in the script
    - as a team discuss as well
    - peak constraints,
    - fly way is controlled version of schema, and do checks for alter/doesnt - keeps us honest
- JM
    - as long as it is re-runnable
- JB
    - 3 things:
        - data standard
        - implementation at phys level
        - verisoning and deployment of changes
    - standards often used in forms easier to manage by biz side
    - renumerations, typically used at that level
    - what will happen with sql / json
    - implementation
    - cutting out top level, def of data format and enumwerations
    - standard orgs like ISO, LEI others - will combine things into single code table for type being used for
    - becomes implemented and turned into phys usage
    - relevant to consider defs of code tables as reference for data docs and see how easy to automate/deploy/version
- KS
    - vers of the schema and the data dictionary and lookup table values
    - understand
    - standardization things like accord - top level doc
        - standard
        - vers of standard
        - fancy terms and structure to make it very official
    - JSON nice intermediate form
- JB
    - labels, structure, readable
    - normative
    - "shall conform"
    - ocumenting lookup tables seems like more work but having a form you can extraxt from is good
    - schema is a phys thing, implementation of a particular db
    - important to get buy in form the biz side, look at it, anyone can use, look at higher level docs
- PA
    - on Fri going forward, openIDL personal auto data standard as a doc
    - version, automate, check it
- JB
    - good for consistency and reliabllity
    - do want some form that someone who doesn't und the lower level can und the standard
- JM
    - right b/w JSON and statplan - gap there
    - once you get the json, somewhat readable
- JB
    - prob with XML standards, rigid, JSON has flexibility, sequence not as important
    - there are benefits to good clear semantic defs
    - not so much stat plan as it is the doc of the business side

    - starts conceptual
- KS
    - documentation of the standard
    - need the same thing for HDS which is NOT the stat plan
    - eventual data standard
- JB
    - excel example is readable
- JM
    - spreadsheets are readable and consumable
    - attempt to be in the middle
    - not sure right for this job but worth looking at
- JB
    - lead in to this (PEter's work)
- KS
    - going back to way it works, PA and JN, techs will not say "we need to add new code to this table" - will do it based on an org managing a standard saying "we need a new code", managed at standard level not code level
    - maybe excel as working docs
- PA - hard time imagining an excel could help him out
    - actual values would fit in excel but also a whole para explaining
- KS -
    - excel is a comms mechanism so those like DH and others can contribute to the standard
- JM
    - data dictionary of sorts
    - when it needs ot change, how will you do that
    - ex: ref w/ 3 rows, add 4th and 5th
    - know before x used code c and after code d
- PA
    - decode with left joins
    - stick expiration dates on "where clause"
- KS
    - must bubble up to EPs and Reports
    - run report on data 2 years old, or last year, super complicated extraction
    - morphing of the algo
    - data avail or not
- JB
    - effect other things
- KS
    - changing schema gets nasty
- JB
    - no need to change schema if updating code tables
- JM
    - if we need expiration dates on ref tables, as the years go by, put in effect and expire var rows
- JB - just because useful doesn't mean you have to implement
- PA
    - can I add Jan 1 2000
- JM
    - need to standarize on neg and pos affinity
- KS
    - where does the data come from? one time extraction, another view for this year
- JM
    - comes from biz people
- DH - 15 years ago we didn't have electric cars, now we want them as a vehicle type
- KS
    - do a report on what came through, cant ask for code on a report if it didn't exist
    - need to be respectful of changes to data
    - sensitivity to the date
- PA
    - doing decode based on date of when policy was issued
- KS
    - view has to understand the decode based on the date
- JB
    - if a code didn't exist in a hist record, b/c newer code, make exception anyway
- JM
    - effective expiration on all lookup tables
    - append case is easy case
    - when a given code needs diff meaning in the future than whan it was in the past
- PA
    - now not limited to 0-9, code 11 would need to move to the end
- JB
    - "the code is B"
- JM
    - global arch assumption, fixed width problems are over, everything is meaningful
    - codes are unique, no prob of duplicity
    - no effective expiration dates
- DH
    - add a code later on, make sure not being used in the past
    - no vehicles in 1950s showing electric cars
- KS - validation rule?
- JM

    - entry in ref table issued will never change? bold statement
- JB - include context of code was for
    - important - codes differentiate properties specify terms of policies and the business, actual models of the business itself
- JM
    - compromises too
- KS - not mutually exclusive
- JM - over-engineered
- KS - posited, using a rule to check if a code should be that, effectively an expiry date on a row, generalized for every field, dont need to write individual rules
    - use effective expiration dates
    - assumes not having value there, handled elsewhere
- JB - could have codes for entities or things that expire, expiration important
- JM
    - immutability argument, once a code never rescind it
- PA
    - more granular columns would make sense
- KS -could do by expiring all codes in those fields
    - cant expire schema
    - json key optional
    - more flexible for the future
    - processing of the historical records
- PA - expiration on every code? yes
    - default values based on stat plan?
- JB - advocate 1/1/2000, hard limit some can't go past 2186?
    - need a hard future data vs needing it null
    - tech limit on dates?
- KS
    - new item - default start and end dates
    - reco start date that gave KS a scare - 2k
    - bad idea - will we get data before 2k we need to work with? If so go 1970 or 1900



Time	Item	Who	Notes

Documentation:

Notes: (Notes taken live in Requirements document)

Recording: