

CWE REST API Working Group Meeting – June 2, 2022

1) Call to order

2) Agenda approval

3) Minutes approval

4) Regular order

- Note – email list reflector: cwe-capec-rest-api-working-group-list@mitre.org
- Note – GitHub: <https://github.com/CWE-CAPEC/REST-API-wg>
- Note – CWE data response content: https://cwe.mitre.org/data/xsd/cwe_schema_latest.xsd
- Note – Swagger: [API Documentation & Design Tools for Teams | Swagger](#)
- Note – GraphQL and GraphQL Playground: <https://graphql.org/>
- GraphQL vs. REST poll results
 - o 5:GQL, 6:REST (<https://www.surveymonkey.com/r/SHVWJFL>)
 - o Move forward with use-case and versioning issues, and pick this up JIT
- Reorient timeline with respect to WG goals
 - o Milestones, at least, ordered by time
 - o Q2'22
 - REST API definition
 - Query for FULL database with REST (CWE or CAPEC), and
 - o Developer queries entire database and builds underlying derivatives as needed in the client
 - o CAPEC already has STIX response data (<https://github.com/mitre/cti> in the capec directory, then 2.1)
 - Query ONE ID in REST and get a full JSON of that ID
 - o Simple query which helps develop tooling for more advanced queries if required
 - Query syntax
 - JSON response syntax
 - o MITRE strawman proposal?
 - o Consider STIX content when proposing response
 - Is underlying db is “old” (current) single-version access? (MITRE owns the infrastructure decision)
 - STIX
 - Move UCs forward to justify individual API capabilities (Altaz, Charles)
 - Justify API requests (Accellera) back to a UC
 - o Q3'22
 - GET supported
 - 1194
 - 699
 - 1228
 - 1196
 - o Q4'22
 - Complete GET support – full list from WG start
 - o Delay GraphQL decision until use cases (UCs) are defined
 - o May be able to support BOTH GQL and REST
 - o Request to focus on a sufficiently complex query so that “waterfall” (more round-trip) queries do not ensue
 - o Might we be able to partition query types between REST and GQL

- Use cases
 - Have them drive next layer of query/response needs
 - Developer (user of database) drives UCs
 - Have documentation of WHY the API “looks like it does”

5) Action item review

- Check Git for enhanced views of db content
- REST query strawman (Luke)
- JSON response strawman (Rich, Steven)
- SA-EDI UC (Brent)
- “Better view” of CWE db structure (Richard, Steve CC)
- May be a tool to parse a schema and turn it into an image of classes/sub-classes (Altaz)

6) Adjourn