TESTBED-15

Delta Updates

OGC API - Features

OGC API - Process

Client

Delta Updates

Retrieval of updates with priority flags

Goal

- Delivery of prioritized updates of features
- Two scenarios:
    - Web Feature Service (WFS) instances to support updates on features sets
    - Web Processing Service (WPS) instance to access features, without the need to modify the downstream data service

- Both scenarios to use OGC APIs

Delta Updates Implementations

- Delta updates: focus on features

- Server side implementation uses two tables
  - AUDIT
  - CHECKPOINT

- Support for modification types:
  - Simple (single feature in single collection)
  - Complex (multiple features, various collections)

Results

- Transactions and delta updates are important across many APIs (Features, Processes, Tiles, Styles…)

- Various APIs may have different requirements on change documentation
  - Simple updates to features: cheap
  - Simple updates to tile pyramid: potentially extremely expensive

- Further cross-API (aka common) work required

Delta Updates = ChangeSet