

Transactions for versioned Features with OGC API part 4 (or..)

<https://github.com/opengeospatial/ogcapi-features/issues/430>

This supporting sheet shows two examples of how a registration database can handle transactions. There are other ways too, these two are merely illustrations.

- Sheet 1: the new data of a feature is inserted as a new record, the old data gets and end-date via an update.
- Sheet 2: “insert only”, the new data of a feature is inserted as a new record, the old data gets and end-date but this is resolved also with an insert.

OPERATION

DATA

TEMPORAL DATA

NEW Feature
REST/OGC API: POST
DB: CREATE/INSERT

Feature
Resource



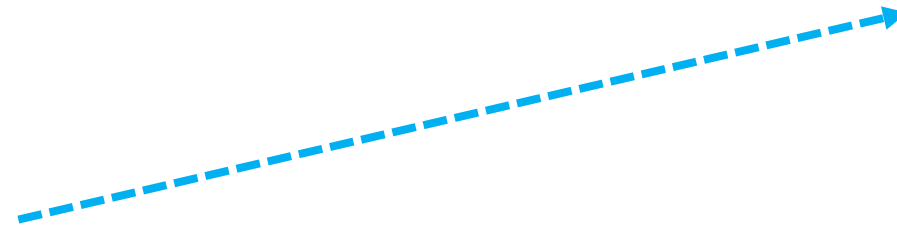
Version 1

Insert a new record

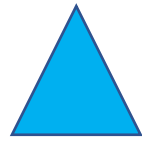
T0 - null

T0 - T1

Update record to add T1



Modify Existing Feature
REST/OGC API: PUT
DB: update v1, insert v2



Version 2

Insert a new record

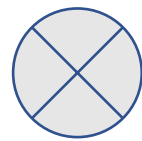
T1 - null

T1 - T2

Update record to add T2



Ending Existing Feature:
REST/OGC API: ?
DB: update v2



NEW Feature
REST/OGC API: POST
DB: CREATE/INSERT

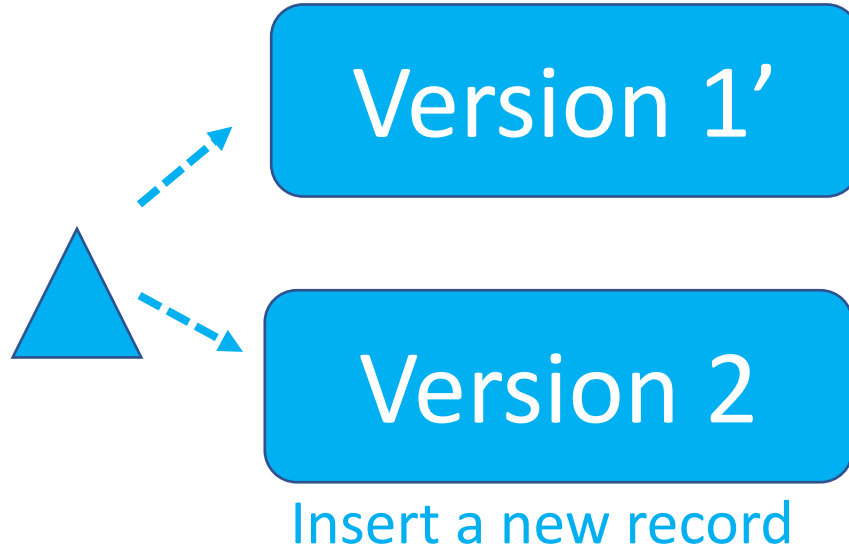
Feature
Resource



T0 - null

Insert only: modify version 1 by inserting a new record

Modify Existing Feature
REST/OGC API: ?
DB: insert v1', insert v2



T0 - T1

T1 - null

Ending Existing Feature
REST/OGC API: ?
DB: insert v2'



T1 - T2

Insert only: modify version 2 by inserting a new record