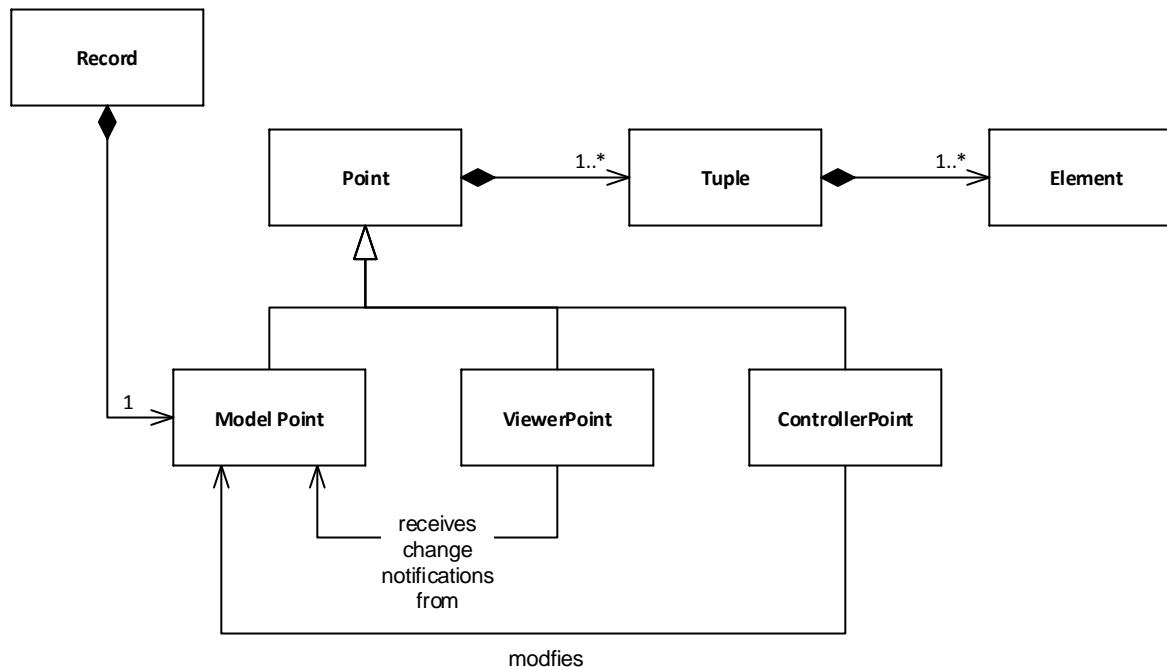
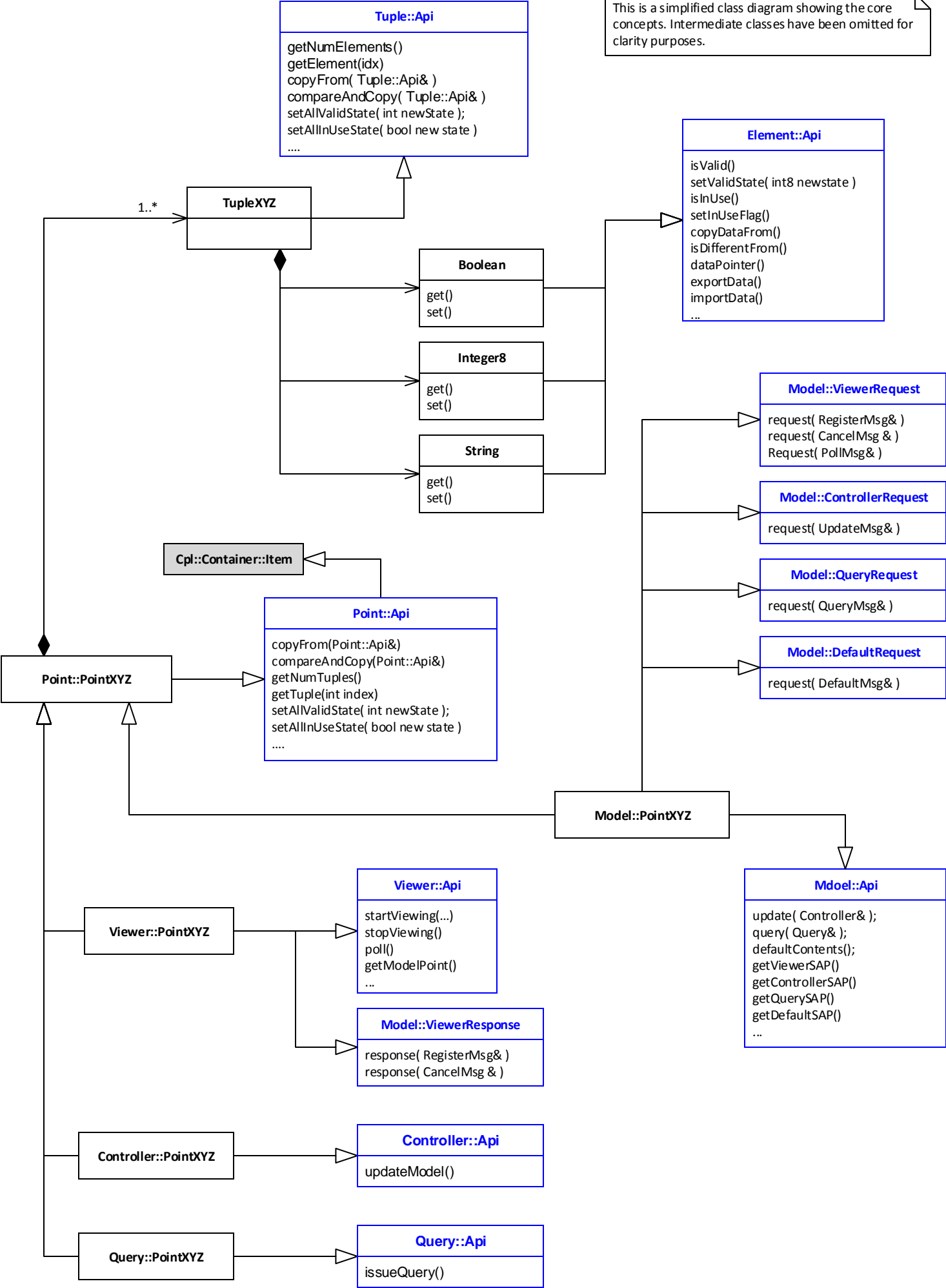


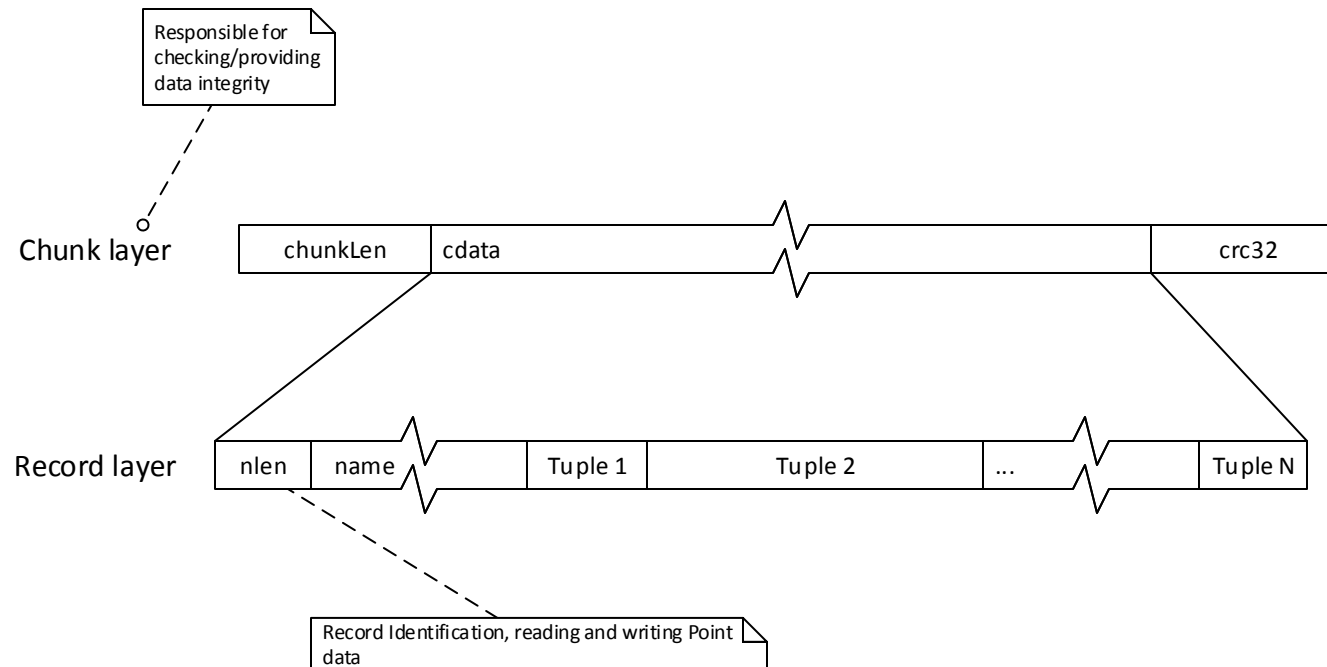
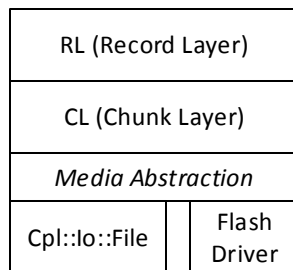
#### Versioning Rte Database:

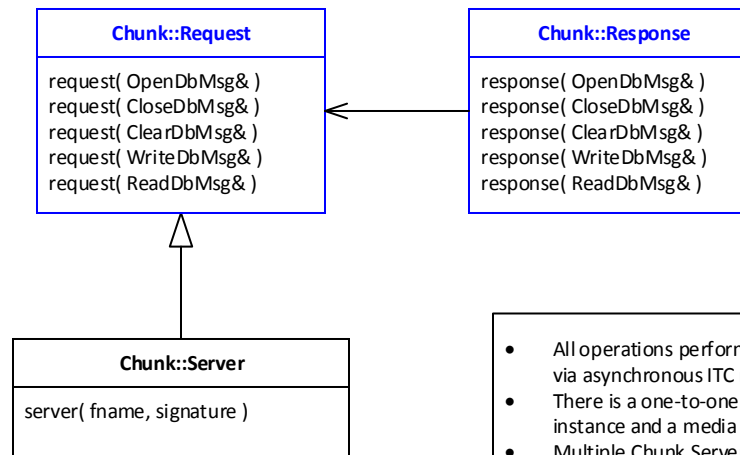
- A change in the major index requires a “external” conversion
- A change in the minor index is done “on the fly”
- The db file’s signature name (text string) has the major index encoded in it, i.e. the RTE DB engine will not load a DB of with a non-matching ‘major index’
- A change in the minor index can take 3 forms. All these forms are handled automatically by the Record layer.
  - Entirely new points and/or records being added.
  - APPENDING new data to an existing point.
    - This means: appending a new tuple to a Record, it does NOT mean inserting or changing existing tuple(s) in to an existing point in the Record.
  - Purging and/or deleting obsoleted Records.
- The ‘minor index’ is essential per Record/point – not a single ‘global’ minor index per DB concept.



This is a simplified class diagram showing the core concepts. Intermediate classes have been omitted for clarity purposes.







- All operations performed by the Chunk Server/Layer are done via asynchronous ITC messages
- There is a one-to-one relationship between a Chunk Server instance and a media "file".
- Multiple Chunk Servers can co-exist in a single thread
- The first Chunk in the file contains the "signature". The signature is record with a name, but no data

