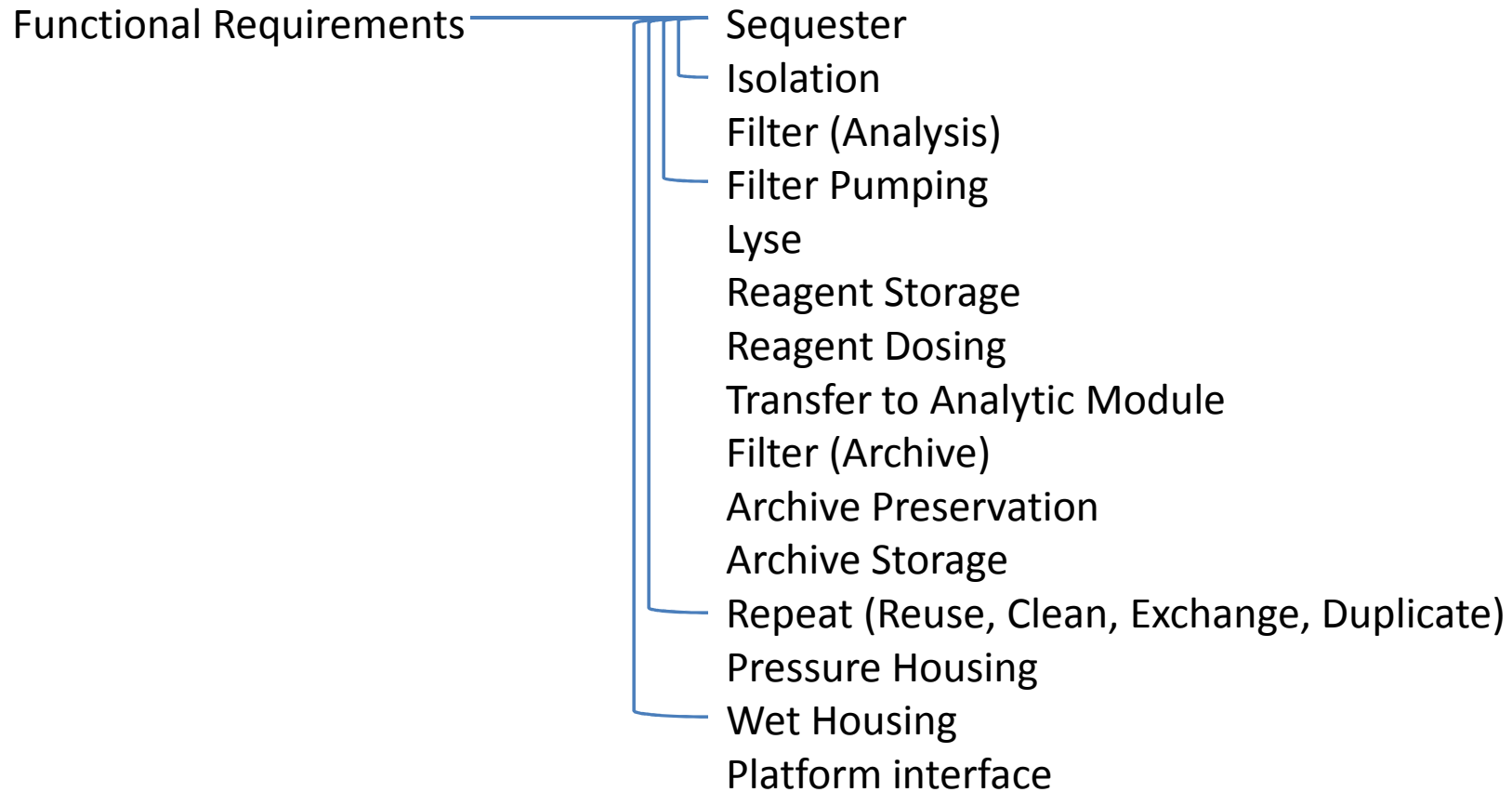
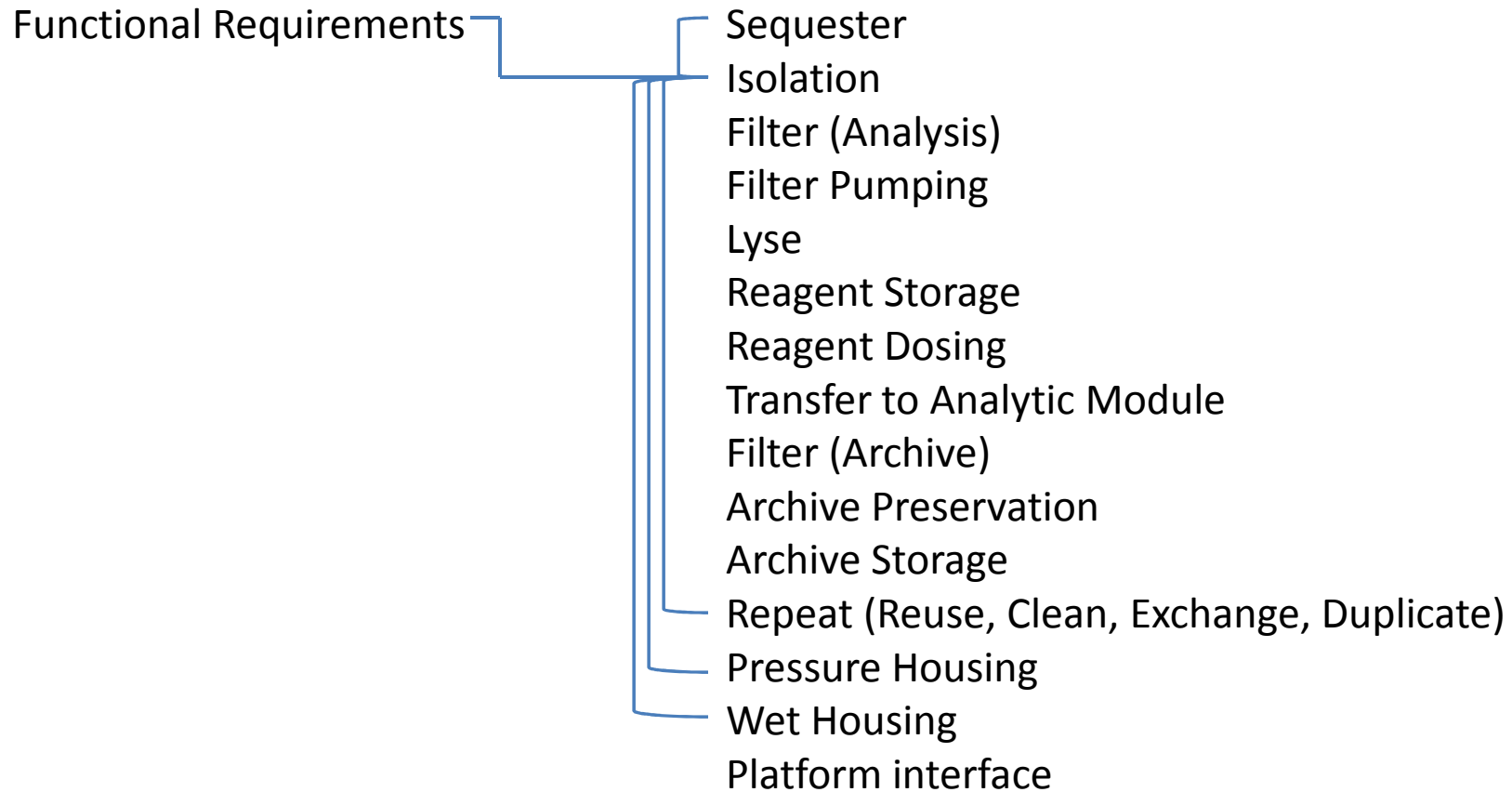


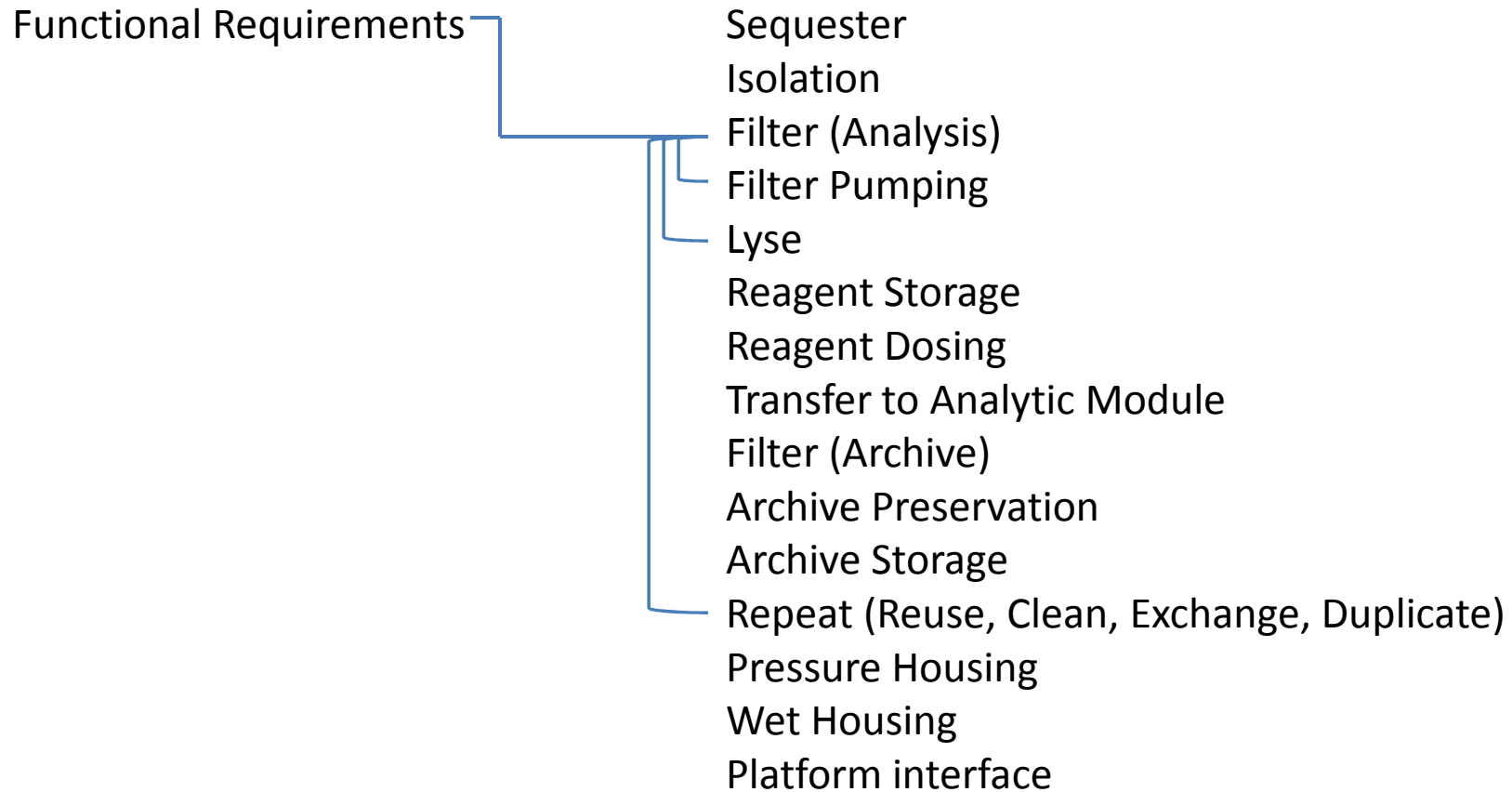
G3 ESP Design Dependencies



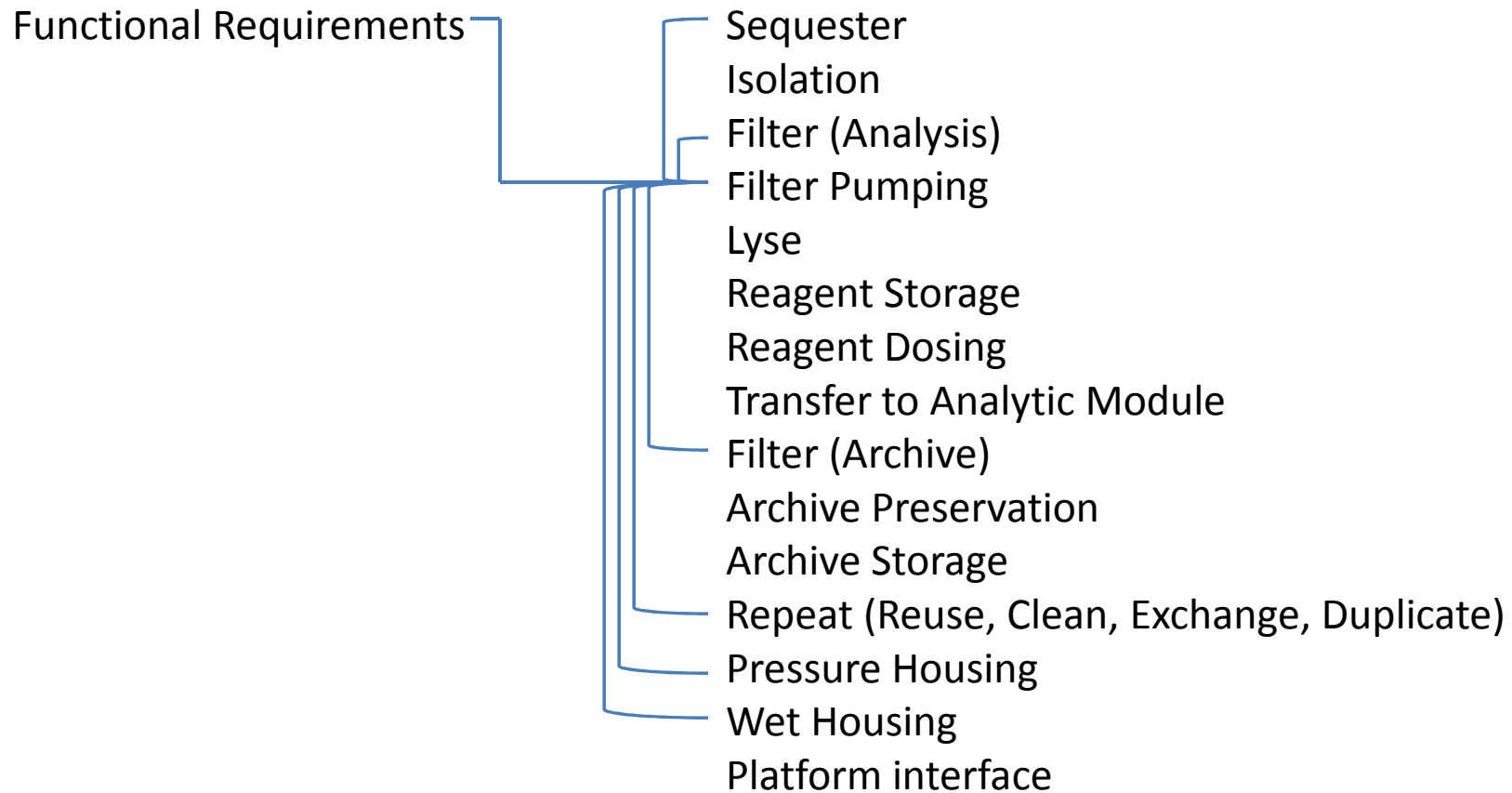
G3 ESP Design Dependencies



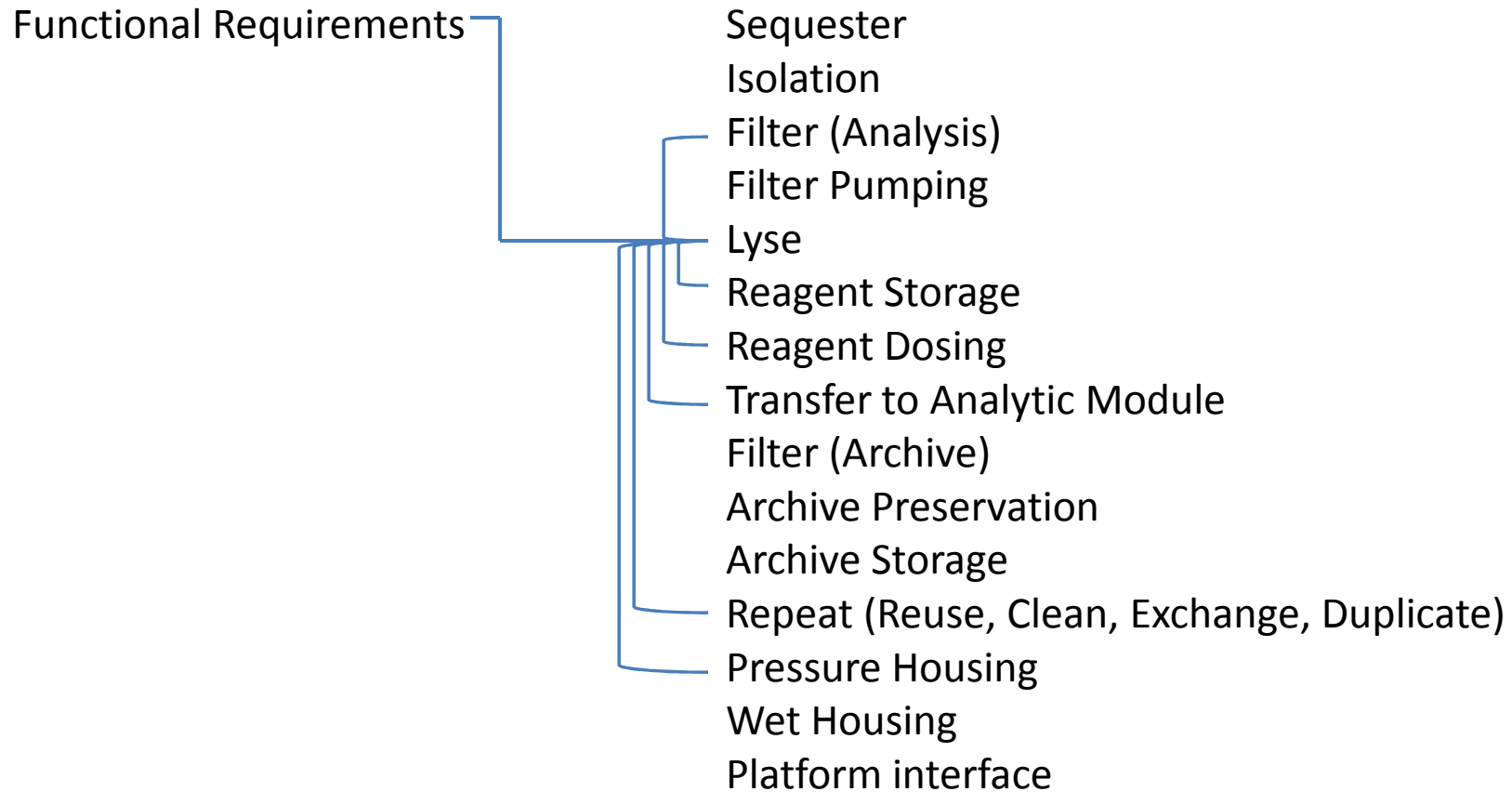
G3 ESP Design Dependencies



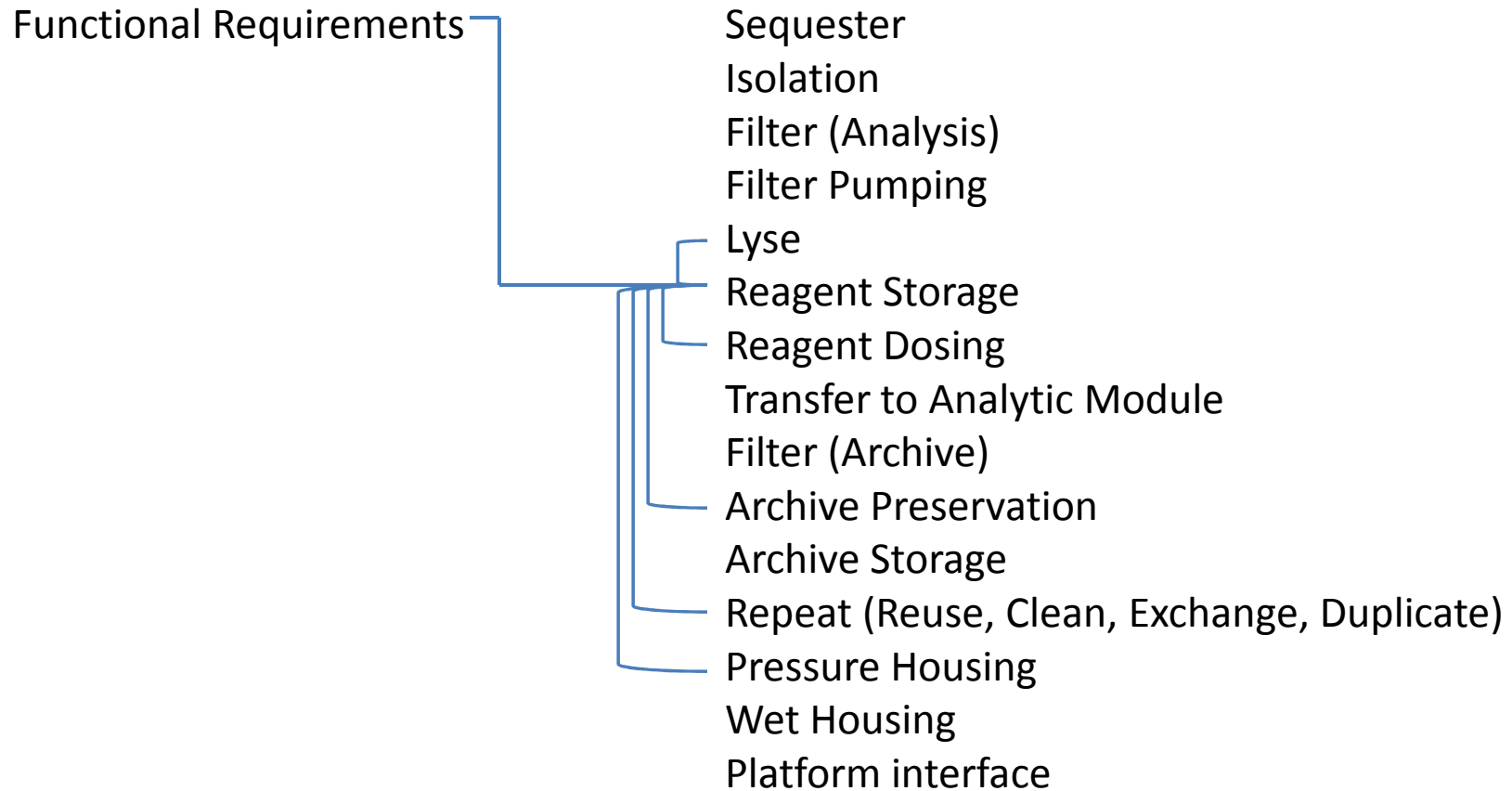
G3 ESP Design Dependencies



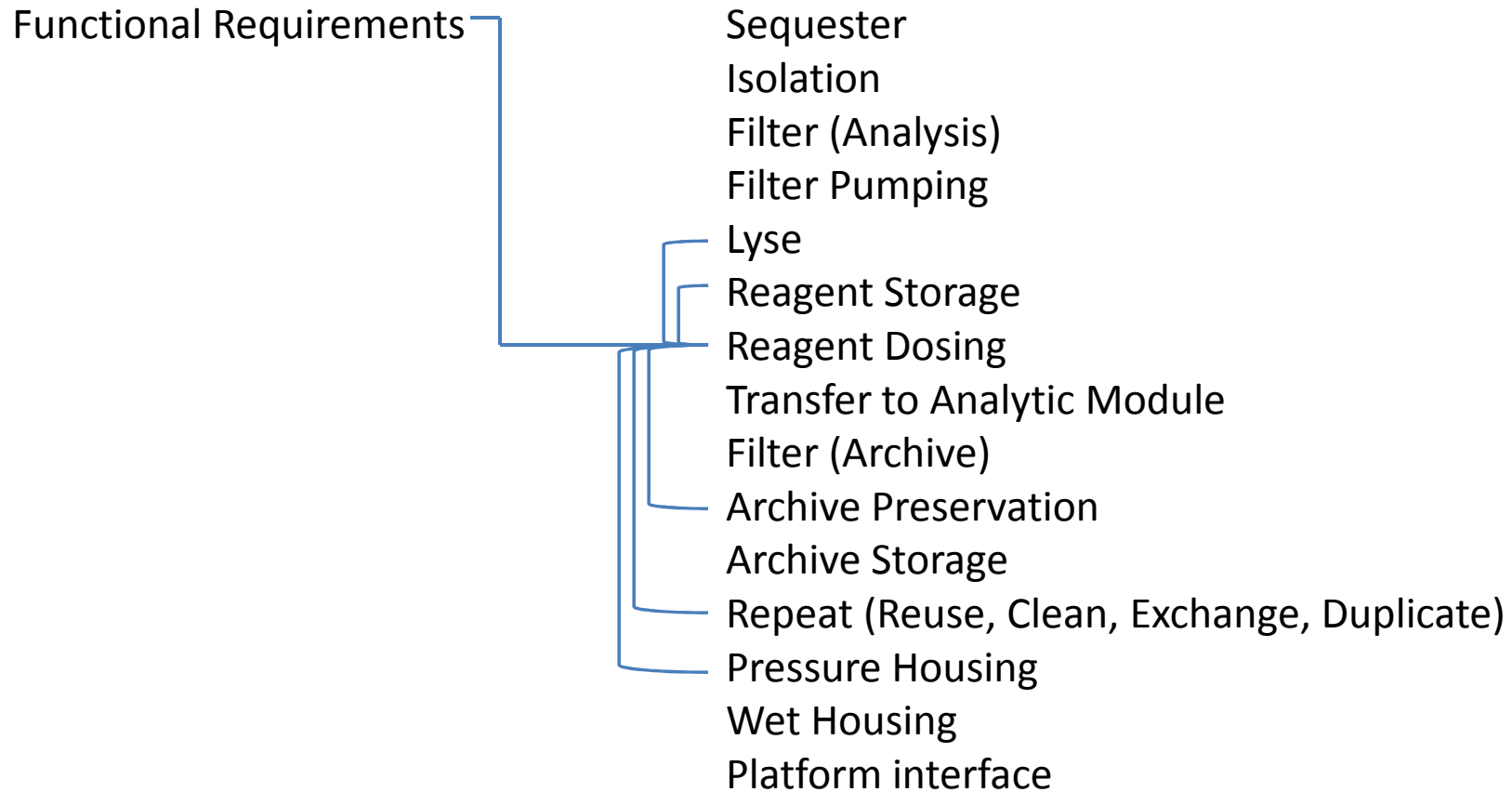
G3 ESP Design Dependencies



G3 ESP Design Dependencies



G3 ESP Design Dependencies



G3 ESP Design Dependencies

Functional Requirements

Sequester

Isolation

Filter (Analysis)

Filter Pumping

Lyse

Reagent Storage

Reagent Dosing

Transfer to Analytic Module

Filter (Archive)

Archive Preservation

Archive Storage

Repeat (Reuse, Clean, Exchange, Duplicate)

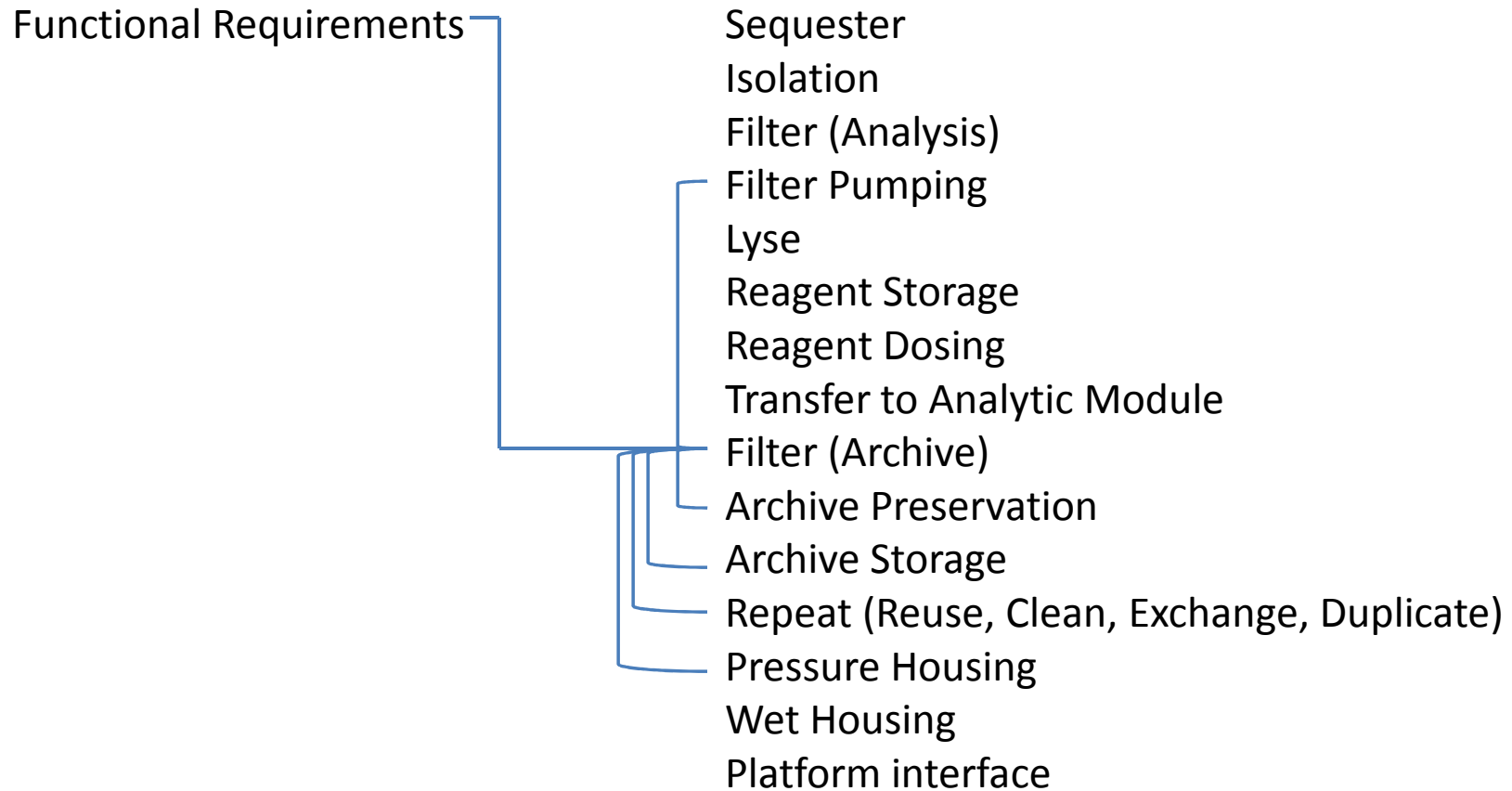
Pressure Housing

Wet Housing

Platform interface

```
graph LR; FR[Functional Requirements] --- L1[Sequester]; FR --- L2[Isolation]; FR --- L3[Filter Analysis]; FR --- L4[Filter Pumping]; FR --- L5[Lyse]; FR --- L6[Reagent Storage]; FR --- L7[Reagent Dosing]; FR --- L8[Transfer to Analytic Module]; FR --- L9[Filter Archive]; FR --- L10[Archive Preservation]; FR --- L11[Archive Storage]; FR --- L12[Repeat Reuse, Clean, Exchange, Duplicate]; FR --- L13[Pressure Housing]; FR --- L14[Wet Housing]; FR --- L15[Platform interface];
```

G3 ESP Design Dependencies



G3 ESP Design Dependencies

Functional Requirements

Sequester

Isolation

Filter (Analysis)

Filter Pumping

Lyse

Reagent Storage

Reagent Dosing

Transfer to Analytic Module

Filter (Archive)

Archive Preservation

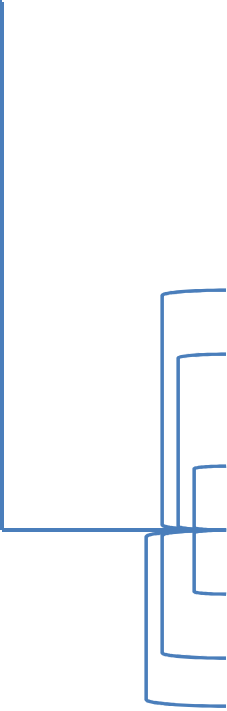
Archive Storage

Repeat (Reuse, Clean, Exchange, Duplicate)

Pressure Housing

Wet Housing

Platform interface



G3 ESP Design Dependencies

Functional Requirements

Sequester

Isolation

Filter (Analysis)

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Lyse

Reagent Storage

Reagent Dosing

Transfer to Analytic Module

Filter (Archive)

Archive Preservation

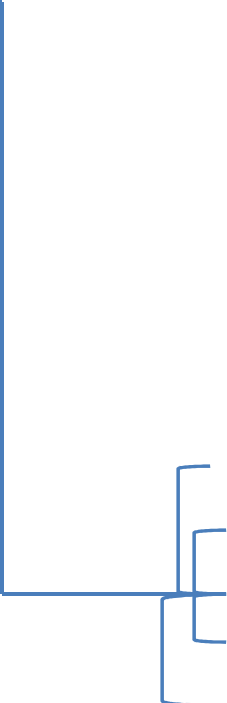
Archive Storage

Repeat (Reuse, Clean, Exchange, Duplicate)

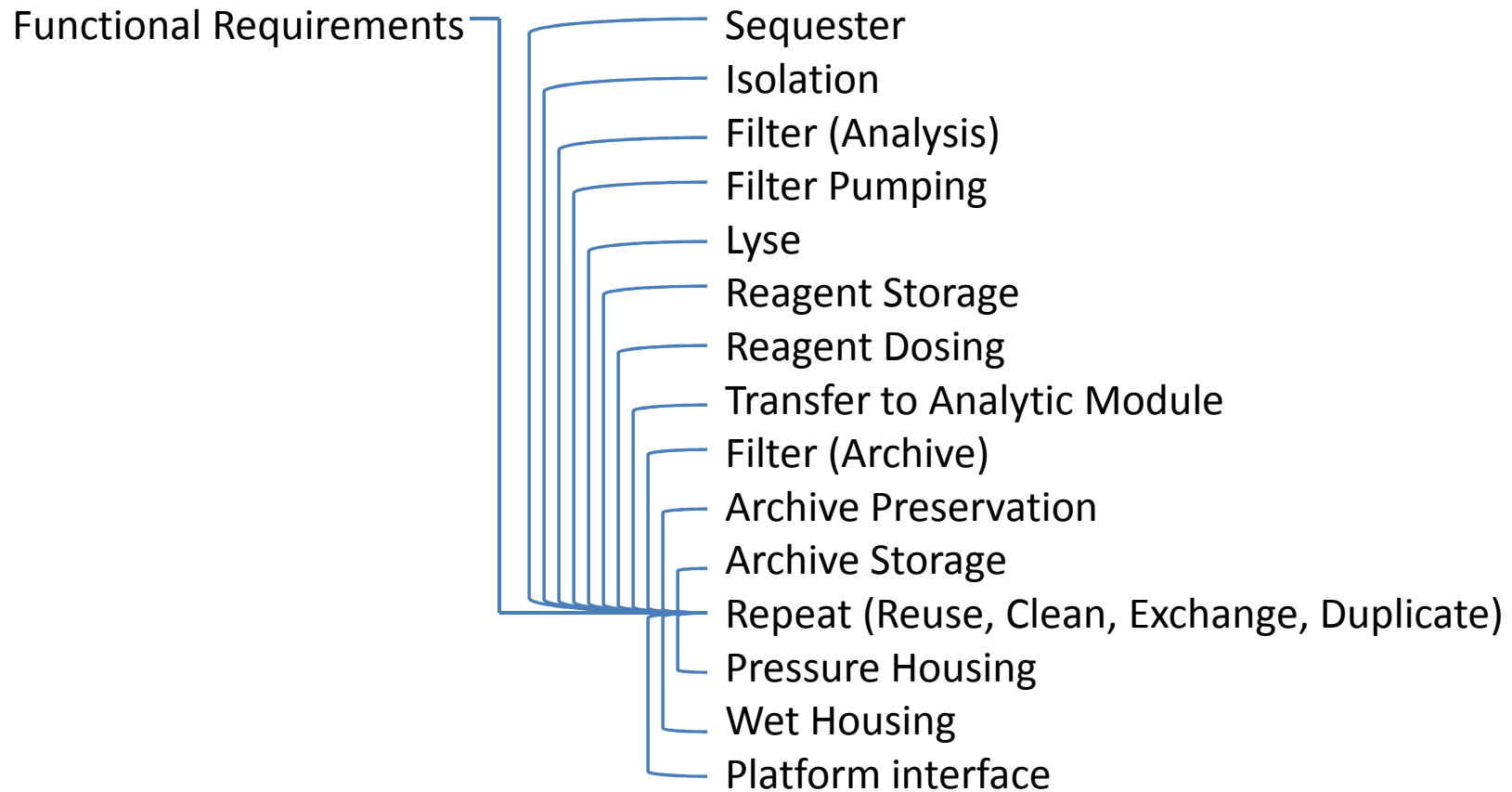
Pressure Housing

Wet Housing

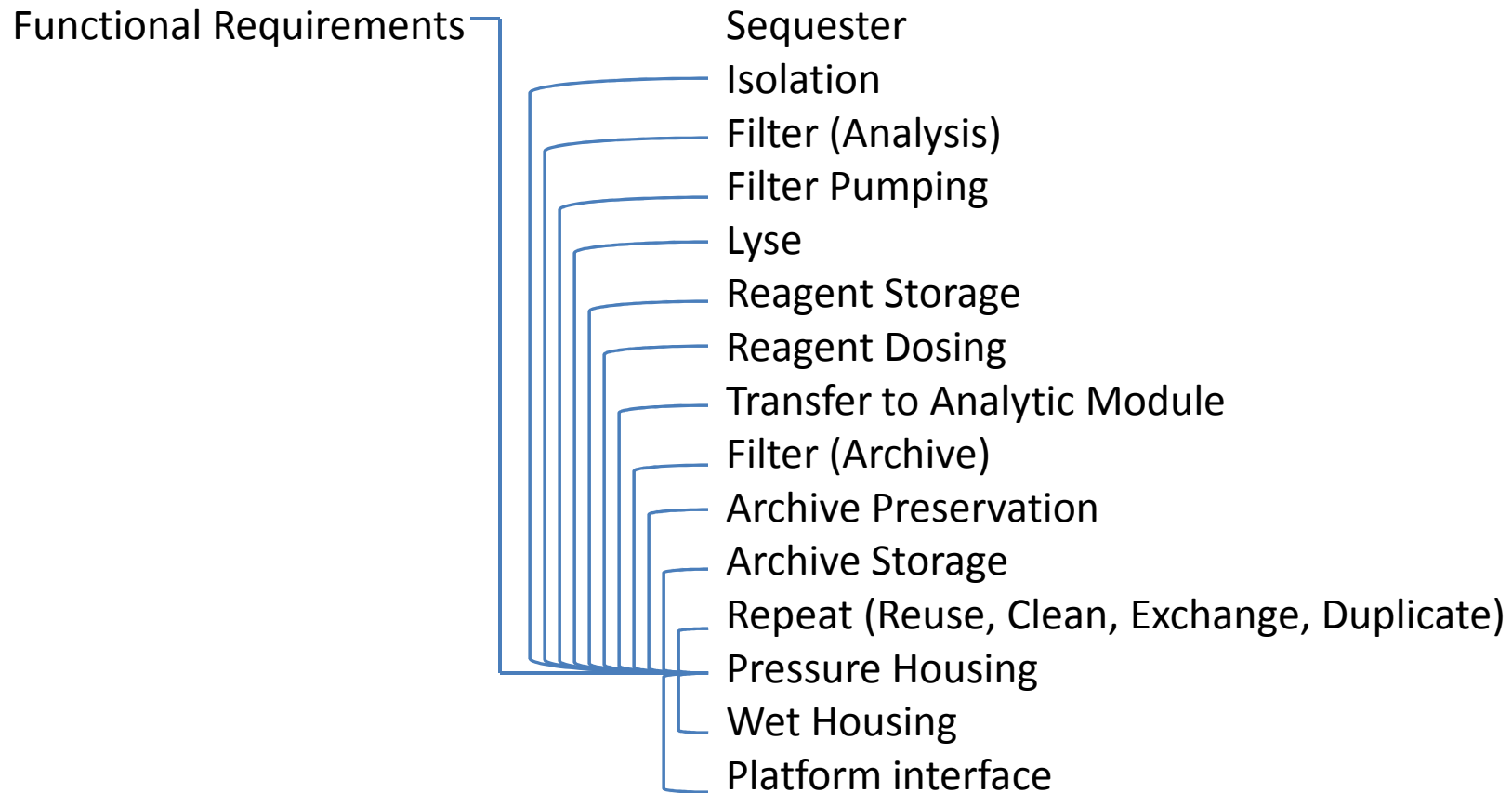
Platform interface



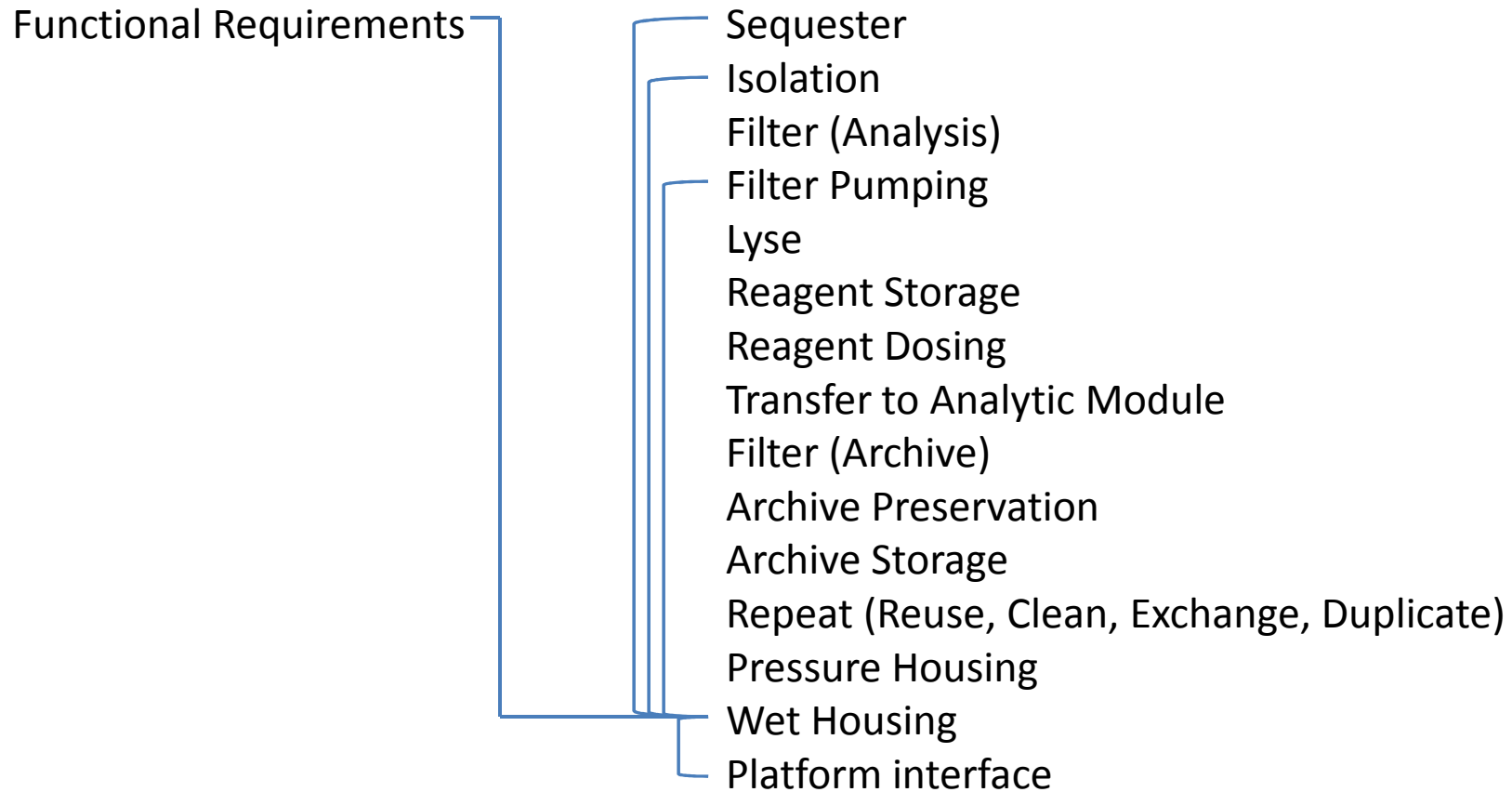
G3 ESP Design Dependencies



G3 ESP Design Dependencies



G3 ESP Design Dependencies



G3 ESP Design Dependencies

Functional Requirements

- Sequester
- Isolation
- Filter (Analysis)
- Filter Pumping
- Lyse
- Reagent Storage
- Reagent Dosing
- Transfer to Analytic Module
- Filter (Archive)
- Archive Preservation
- Archive Storage
- Repeat (Reuse, Clean, Exchange, Duplicate)
- Pressure Housing
- Wet Housing
- Platform interface