Capabilities

> ⚠ **In Progress**
>
> Rather than a maturity model framework, we intend to document **capabilities** that systems can have for connections between health and supply chain.

- [ ] Product identification
  - [ ] Has a definition of a Commodity/Product
  - [ ] Differentiates between Commodity/Product and Items
  - [ ] Has a definition of a Lot/Batch
  - [ ] Defines Lot/Batch in terms of Items
  - [ ] Items may have GTIN
  - [ ] Items define which Commodity/Product systems they belong to
  - [ ] Items may belong to many Commodity/Product systems
  - [ ] Has a definition for Item serial #
  - [ ] Orderable Commodities/Products define just enough attributes in addition to the Commodity classification that give them use in two parties carrying out a re-supply request and fulfillment cycle. This allows a store that needs more of a commodity, to order that commodity, and gives the fulfilling store choice in which items will be used to fulfill for that ordered commodity.
- [ ] Product Alignment
  - [ ] Master data follows standard definitions (e.g. GS1 GDD)
  - [ ] Classification of Item into Commodity/Product
  - [ ] Fulfills For and Fulfilled By relationships
- [ ] Inventory
  - [ ] Transactions / movements are part of a ledger (as credits / debits)
  - [ ] Stock events/movements may be recorded
    - [ ] By Location (Facility, Store room, Refrigerator, etc)
    - [ ] By source & destination Location
    - [ ] By Program - you know how many bandages you have accepted by the Malaria program as opposed to how many were accepted by the EPI program
    - [ ] By Commodity
    - [ ] By Item
      - [ ] By Lot
      - [ ] With Serial #
    - [ ] By expiration date (without knowing Lot)
    - [ ] By date the physical event occurred
    - [ ] By date-time of entering record into system
    - [ ] Define Stock Adjustment Reasons for an event occurring (e.g. stock was received, stock was lost due to cold chain failure, etc)
    - [ ] Stock Adjustment Reasons may be grouped into larger semantics (e.g. these 3 debit reasons together define Open Vial Wastage, and these other two define Closed Vial Wastage).
  - [ ] Stock on Hand may be reported:
    - [ ] By Commodity / Product
    - [ ] By Item
      - [ ] By Lot
    - [ ] In aggregate for Commodity with all Items
    - [ ] As of a date
    - [ ] As of a date as reported by the system on a historical date-time
- [ ] Location Alignment
  - [ ] Locations are nest-able (a storeroom within a building of a hospital)

- [ ] Locations may designate an Organization responsible
- [ ] Locations may be a part of one or more administrative areas (supervision structure, supply line, health catchment, geopolitical, etc)
- [ ] Location also identifiable by GS1's GLN (e.g. through OID)

- [ ] Resupply
  - [ ] Order / Purchase Order
  - [ ] Invoice
  - [ ] Shipping notice (e.g. ASN, GS1 Despatch Advice)
  - [ ] Receiving notice (e.g. POD, Receive Advice)
  - [ ] Shipment identifier (e.g. GS1 SSCC)
  - [ ] Transport identifier (e.g. GS1)