Aggregation – part of many regulation for traceability
What is Aggregation?

Aggregation is **a hierarchical, parent-child relationship** between a containing object (i.e. parent) and one or more objects (i.e. children) which are contained.

Aggregation may be created or dissolved at practically any point in the hierarchy of trade items and logistics units, aggregating…

- **trade items** (secondary) to a **trade item** (tertiary)
- **trade items** (secondary and/or tertiary) to a **logistics unit**
- **logistics units** (e.g., tote) to a **logistics unit** (e.g., pallet)
Track&Trace - Serialisierung und Aggregation

**Serialisation**
- Serial number on each folding box

**Aggregation**
- Serial numbers on each packaging level

With thanks to Bayer
China Aggregation

Folding Box

Bundle

Shipper Case

With thanks to Bayer
USA Aggregation

- Folding Box
- Bundle
- Shiper Case

With thanks to Bayer
EPCIS events captured and shared by . . .

Party at beginning of the supply chain (e.g., manufacturer)
- Commissioning
- Packing
- Shipping

Intermediate parties (e.g., distributor)
- Receiving
- Unpacking
- Packing
- Shipping

Party at end of chain (e.g., pharmacy)
- Receiving
- Unpacking
- Dispensing
- Decommissioning

*Aggregation Events highlighted in orange above*
Aggregations within a process flow
Designing a Visibility System using EPCIS

- **Vehicle**
  - Transport container
- **Container**
  - Load pallet into container
- **Pallet**
  - Pack cases onto pallet
  - Unload pallet from container
- **Case**
  - Commission pallet SSCC
  - Pack items into cases
- **Item**
  - Commission item SGTIN
  - Commission case SGTIN

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