



The Global Language of Business

Aggregation – part of many regulation for traceability

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# What is Aggregation?

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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

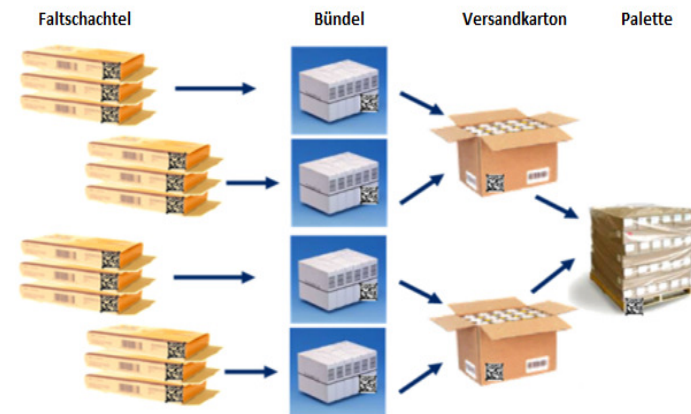
## Serialisation

- Serial number on each folding box



## Aggregation

- Serial numbers on each packaging level

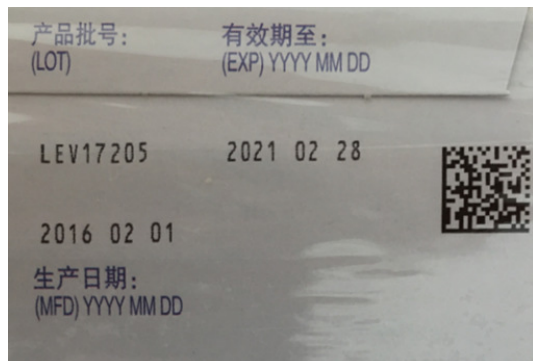




# China Aggregation



## Folding Box



## Bundle



## Shipper Case





# USA Aggregation



## Folding Box



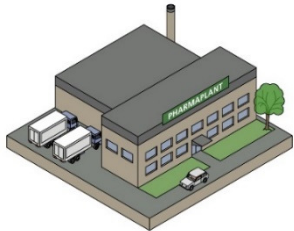
## Bundle



## Shipper Case



# 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

