The benefits of aggregation for your pharma supply chain

Improve packaging processes and achieve compliance

In the pharmaceutical supply chain, data is now a key ingredient for product safety and compliance. Secure and reliable data exchange among partners is essential and required.
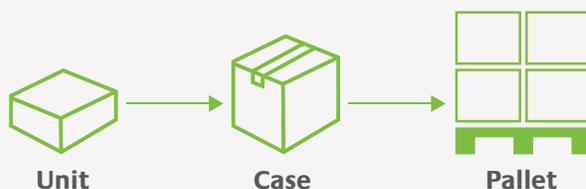
What is aggregation?

Aggregation is the process of associating (packing) serialized 'children' to a serialized 'parent'. The aggregation rules are defined by the packaging **hierarchy** which specifies what package types can be packed into other package types (i.e. unit into case, case into pallet). The aggregation operation checks the child's type and state and maintains a child count against the required count or pack factor. To commission the parent three things must happen:

1 The parent is issued a serial number

2 All serialized children are associated to the parent

3 The association is finalized in a process called commissioning

Once these steps are performed, the commissioned parent may now become a child for higher level packages (case is the parent of a bottle but the child of a pallet).

Unit → Case → Pallet

Suppliers can utilize EPCIS[1] aggregation events by sharing them with receivers of the product. This exchange of information allows partners downstream to be more efficient and infer verification by scanning the highest-level containers in the hierarchy.

[1]https://www.fda.gov/media/90548/download

Aggregation Benefits

- Enable true track and trace

- Simplify reporting and minimize errors

- Streamline verification process across the supply chain

- Improve recall management process

- Promote efficiency and cost savings

- Comply with wholesaler requirements

- Optimize packaging operations

Turnkey serialization solutions
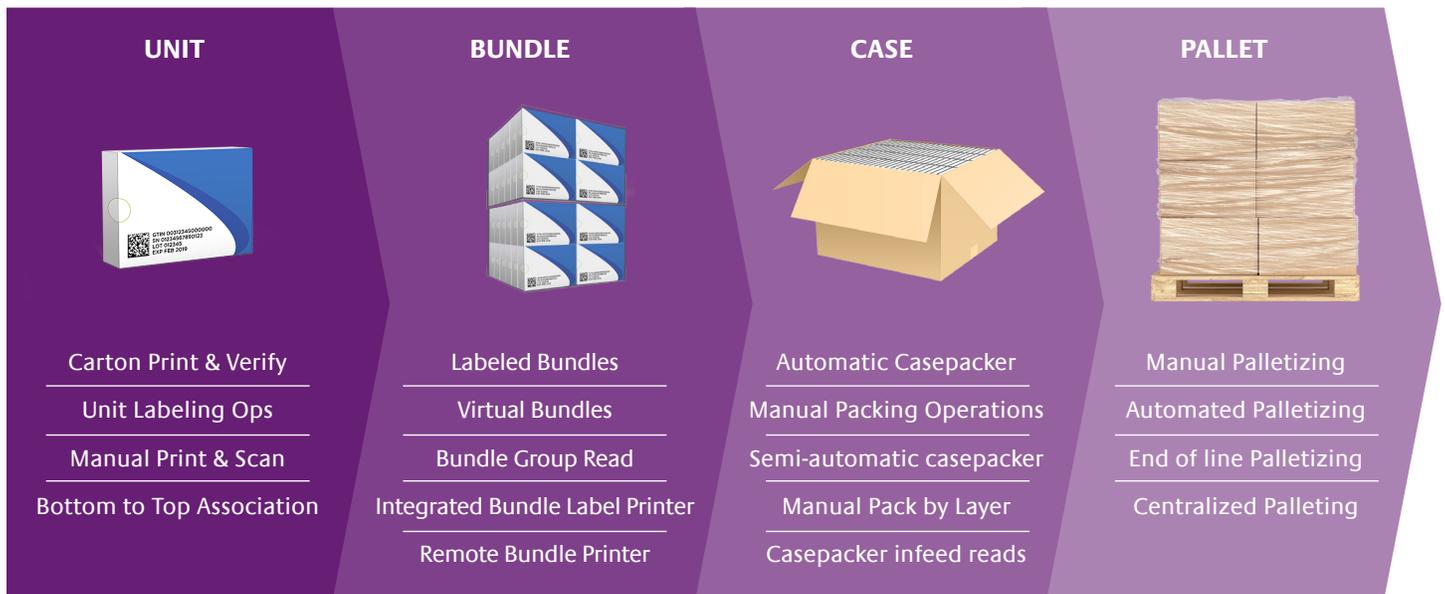## Systech makes aggregation simple

Systech has been developing and delivering products for the pharmaceutical industry for more than three decades. And we're here to guide you through the aggregation process. Productized, configurable and expandable packaging technology has been a key asset in helping our customers successfully deploy solutions to meet the changing market requirements, compliance regulations and a broad range of packaging environment challenges.

As the pioneer of pharmaceutical serialization, we've taken our experience with hundreds of customers and thousands of line implementations and created a repeatable, proven methodology. Whatever your packaging flow is, we've got you covered!

Aggregation in the DSCSA

For the November 27, 2023 interoperability deadline, it is important to understand how aggregation plays a critical role in the TI/TS data exchange required for compliance and distribution. The FDA supports the use of data aggregation[2] as an essential process in trading partners' daily operations of supply chain and data management. And many wholesale distributors will not accept product without this information.

Is your serialization solution ready for the realities of 2023?

UNIT	BUNDLE	CASE	PALLET
Carton Print & Verify	Labeled Bundles	Automatic Casepacker	Manual Palletizing
Unit Labeling Ops	Virtual Bundles	Manual Packing Operations	Automated Palletizing
Manual Print & Scan	Bundle Group Read	Semi-automatic casepacker	End of line Palletizing
Bottom to Top Association	Integrated Bundle Label Printer	Manual Pack by Layer	Centralized Palleting
	Remote Bundle Printer	Casepacker infeed reads	

Systech's configurable, standardized solution supports over 250 serialization workflows on various types of packaging operations.

[2]https://www.fda.gov/media/149704/download

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