



Packaging Requirements for shipping ATO (Assemble to Order)

Document Number and Revision: 425-1237-01 Rev 52

Overview

The purpose of this document is to define guidelines for shipping ATO (Assemble to Order) items with Oracle Systems.

Audience

Oracle Packaging Engineering and supplier shipping ATO items.

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1. Purpose

The purpose of this document is to define guidelines for shipping ATO (Assemble to Order) items with Oracle Systems.

2. Scope

All Oracle Finished Goods System packaging that are shipped ATO.

3. Applicable Documents

Note: All material specifications in this document shall meet or exceed the requirements established by the following reference documents.

- 950-3918-XX *Specification for General Bagging Guideline*
- 950-1685-XX *Specification for Materials to Close, Seal, and Secure Containers*
- 425-1228-XX *Specification for Packaging Material Identification Marking*
- 950-4477-XX *Identification, Labeling & Bar-coding Standard for Assemblies*
- 950-1419-XX *Specification of Identification Labels for Packaged Finished Goods*
- 425-1019-XX *Palletization Specification for Inbound/Outbound Shipments*

4. General Requirements / Big Rules

This specification provides a guideline for shipping ATO options and/or accessories with Systems.

All accessories need to be contained within the ship-kit (ships inside the accessory tray) or accessory tray/container of the System package, or inside of an additional container(s) which ships with the System (example BOX 2 OF 2). Under no circumstances shall ANY accessories ship inside the System package unless it fits inside the ship-kit or accessory tray/accessory container.

NOTE: In some cases an ATO configuration may consist of more than 2 boxes. In such cases appropriately label all containers as BOX x OF n, not necessarily 'BOX 2 OF 2'. ie. BOX 3 OF 4.

No ATO Options, accessories or documentation should ship between the System's package cushions, otherwise physical or cosmetic damage may occur. In order for the foam cushions to perform properly during a drop or shock, the foam needs to be free to compress and absorb the shock from being transmitted into the product/System. For this reason, nothing other than the foam cushions can be located between the product and the container.

Additional requirements:

- All options and/or accessories must be bagged per 950-3918-XX.
- Cords or cables should be bagged and remain coiled/looped as provided by the manufacturer.
- Fill the accessory tray/container completely (so that the flaps on the container close without bulging) before using an additional shipping container(s) (example BOX 2 OF 2) for shipping additional items.
- No over-boxing of the System package is permitted in order to accomplish ATO. The intention is to use BOX 2 OF 2 when shipping additional ATO items that do not fit within the accessory tray/container of the System package rather than over-boxing.

- In the event of discrepancies between this document and the product specific Package Assembly Drawing, or Packaging Instructions, the Package Assembly/Instruction drawing takes precedence.

Marking Requirements:

ATO Accessories: Non-integratable items placed inside the system ship-kit or accessory tray/container are required to be marked in accordance with their respective engineering drawing or specification, or in accordance with labeling specification 950-4477-XX, *Identification, Labeling, and Bar-coding Standards for Assemblies*.

Shipping container(s): Each individual shipping container must have an identification label applied as required per 950-1419-XX, *Specification of Identification Labels for Packaged Finished Goods*. Apply a Type 2 label to each separate container making up the complete ATO system configuration as follows:

- All printed information on the labels of multiple containers of a single ATO system configuration must be identical except for ASSEMBLED IN XXXXXX and BOX x of n.
 - The following types of ATO items, when boxed separately from the system whether individually or in combination, must indicate the same ASSEMBLED IN XXXXXX on their container label(s) as on the system container label:
 - Power cords and cables (AC, DC or high voltage)
 - External data cables
 - Rails or rackmount kits
 - Cable management arms or kits
 - For all other types of ATO items that are separately boxed, the ASSEMBLED IN XXXXXX must be evaluated separately and chosen bases upon local laws and regulations.
 - Box count variables x and n will vary depending upon the number containers used to ship the complete ATO configuration. The container for the system or blade chassis must be marked as BOX 1 OF n.

NOTE: In some cases a separate shipping item may already be boxed and identified with a Type 1 or 3 label (Reference 950-1419-XX) to allow it to ship as a PTO X-option. If the item is ordered as an ATO option, instead of an X-option, apply a Type 2 label over top of any already existing Type 1 or 3 label.

5. Shipping accessories inside the System package

Miscellaneous items including rack rails, CMA (Cable Management Assembly), documentation, cables, power-cords, ship-kit, miscellaneous hardware... should be placed inside the accessory tray/container.

- Rack Rails and CMA are intended to ship inside the System package as opposed to BOX 2 OF 2
- Fiber Optic Cables:
 - May require additional protection when mixed with heavy items that could shift and damage the cables (see Section 6.0 for selecting a container for protecting Optical Cables – only required if other ATO items may shift and damage the Optical cable).
 - If Optical Cables are firmly held in place by other accessories within the the accessory tray/carton (limiting movement of items and the chance that they would get crushed during shipment), then no additional protection is required.
- ATO options and/or accessories may shift or move during shipment (except Fiber Optical Cables – see above), this is acceptable and does not create product protection concerns.
- Durable accessories (hardware, cables, ...) do not require void-fill/dunnage material (eg of acceptable dunnage materials are: bubble wrap, wadded kraft paper, cellulose wadding..), to prevent movement of items within the accessory tray/container.

6. Additional shipping container(s) (example BOX 2 OF 2):

Requirements for selecting BOX 2 OF 2:

- The goal is to fit all additional ATO options or accessories that do not fit into the System package into a *single* container that will ship as BOX 2 OF 2 along with the System package (no over-boxing).
- When Peripheral-Kits are structured as ATO options they will ship separately, and not inside the System package (SunRays excluded).
- The System container and the BOX x OF n container(s) do not need to be palletized together or over-boxed. They are intended to ship independently as BOX 1 OF 2 (System package), and BOX 2 OF 2.
- Select the smallest container from the list below that best fits the additional ATO options or accessories that you need to ship (minimizing empty space in the container).

Additional cushioning:

In most cases, a non-cushioned container, or envelope mailer per 8208016, is appropriate for shipping most ATO items including the following: power cords, cables, Fiber Optical cables, documentation, miscellaneous hardware, filler panels..

Fragile items should be shipped in the accessory tray/container of the System Package when possible. If fragile items that can't fit inside the accessory tray/container of the System Package, then they should use the FRU packaging for that item when shipped as BOX 2 OF 2.

Select BOX 2 OF 2 packaging:

Select a corrugated container from the lists below (or any appropriately sized FRU box), or an envelope mailer per 8208016, for shipping additional ATO options and/or accessories that do not fit within the accessory tray/container of the System packaging. (Note: The part numbers below for corrugated containers or envelope mailer will not appear in the BOM):

| Container ID in inches | | | Container |
|------------------------|-------|-------|-------------|
| Length | Width | Depth | Part Number |
| 6.00 | 6.00 | 2.00 | 401-4726-01 |
| 10.00 | 10.00 | 4.00 | 401-4732-01 |
| 14.00 | 6.00 | 4.00 | 401-4734-01 |
| 14.00 | 14.00 | 6.00 | 401-4739-01 |
| 18.00 | 10.00 | 4.00 | 401-4749-01 |
| 18.00 | 18.00 | 6.00 | 401-4753-01 |
| 22.00 | 6.00 | 4.00 | 401-4755-01 |
| 22.00 | 14.00 | 6.00 | 401-4758-01 |
| 22.00 | 22.00 | 6.00 | 401-4761-01 |
| 39.00 | 4.62 | 22.00 | 401-4091-03 |

7. Definitions:

BOX x OF n: Container(s) can be either a corrugated container or an envelope mailer per 8208016.

Ship-Kit: Pre-bundled kit that ships inside the accessory tray of the System pkg

Accessory tray/container: Within the System Package is a corrugated tray or container that is intended to hold rack rails, CMA, documentation, cables, power-cords or any miscellaneous ATO accessories which are not installed in the System

Accessories: Miscellaneous ATO items that are included in ATO BOM but not installed in the System

Revision History

| REV | ECO | DESCRIPTION | DATE |
|-----|----------|---|----------|
| 50 | WO 43558 | Eng Rel Per ECO WO_43558 | 8/2/10 |
| 51 | E0009544 | Changed 'PRODUCT OF' to 'ASSEMBLED IN' to match 950-4477 and 950-1419. Added note that some ATO configurations may ship in more than 2 boxes. | 4/5/12 |
| 52 | E58127 | Modified sections 5 and 6: removed reference to 'padded mailers' and added new envelope mailer spec (8208016). Reformat to Redwood Template | 10/12/22 |

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