

ASN API Specification

How to submit an Advance Ship Notice: what shipped, when, and the lot-level traceability detail buyers and regulators expect.

How to read this document

API REQUIREMENT **API Requirement** — enforced by the service itself. Miss it and the call is rejected.

BUSINESS REQUIREMENT **Business Requirement** — needed for the transaction to be correct, compliant, or usable downstream, even though the API may technically accept the call without it.

CONDITIONAL **Conditional** — required only when a related field is present, or one of a small group of fields is required (see Section 6).

OPTIONAL **Optional** — safe to omit; include it when you have the data.

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1 What this API does

Call this endpoint when product ships against a purchase order, to tell Procurant (and, through it, the buyer) what shipped, from where, and its lot/traceability detail. This is the ASN — Advance Ship Notice — step in the order flow described in Document 1.

Buyer issues PO → You send Order Ack → You ship & send ASN ← you are here → You send Invoice

2 Quick reference

Description	Submits an Advance Ship Notice for a purchase order.
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REST Method	POST
URL pattern	http://{edi-service-url}/api/message/asnin
Test environment	https://test.procurant.io/edi/api/message/asnin
Request header	Authorization: Bearer <JWT TOKEN> — see Document 1
Request body	JSON object (see Sections 4–5)

3 The location block pattern

Eight roles on the shipment — buyer, delivery, supplier, shipFrom, crossDock, carrier, billTo, remitTo — all use the same suffixed-field pattern (identical to the Purchase Order fields in Document 2):

FIELD	TYPE	REQUIREMENT	DESCRIPTION
Duns	string	CONDITIONAL	DUNS number for this role. For buyer, delivery, and supplier, either Duns or Code is required — see Section 6.
Code	string	CONDITIONAL	Procurant/EDI-assigned code for this role. Interchangeable with Duns.
Location / Name	string	BUSINESS REQUIREMENT	Human-readable facility or company name (property is xLocation for delivery/shipFrom/crossDock/billTo/remitTo, xName for buyer/supplier/carrier).
Address / Phone / City / StateCode / CountryCode / ZipCode	string	OPTIONAL	Postal address and phone detail for this role.

BUSINESS REQUIREMENT

These identifiers must match how the location is configured in Procurant for this shipment to associate with the right facility and trading partner. A structurally valid ASN with a mismatched Duns/Code can still fail to reconcile correctly.

4 Order & shipment header fields

Location-block fields (buyer, delivery, supplier, shipFrom, etc.) follow the pattern in Section 3 and aren't repeated below.

ORDER IDENTIFICATION			
FIELD	TYPE	REQUIREMENT	DESCRIPTION
poNumber	string	API REQUIREMENT	The purchase order this shipment fulfills.
soNumber	string	BUSINESS REQUIREMENT	Your sales order number for this shipment.
status	string	API REQUIREMENT	For this endpoint, must be "Shipped".
subStatus	string	API REQUIREMENT	For this endpoint, must be "Shipped".

DATES & ROUTING			
FIELD	TYPE	REQUIREMENT	DESCRIPTION
shipDate	string	API REQUIREMENT	When the shipment left your facility. Mandatory on every ASN.
deliveryDate	string	API REQUIREMENT	Expected delivery date. Mandatory on every ASN.
routing	string	API REQUIREMENT	Shipping/incoterm method: "FOB Carrier", "Delivered", or "Backhaul". Mandatory on every ASN.

RELATED ARRAYS			
FIELD	TYPE	REQUIREMENT	DESCRIPTION
charges	array	CONDITIONAL	Header-level allowances/charges. See Section 5 for the shape; chargeCode is required only if a charge is given.
comments	array	OPTIONAL	Free-text notes: [{"comment": string}]. Each comment string is limited to 254 characters.

5 Line item fields

Each entry in purchaseOrderLines describes one shipped item.

PRODUCT IDENTIFIERS

FIELD	TYPE	REQUIREMENT	DESCRIPTION
buyerProductCode	string	CONDITIONAL	Either this or supplierProductCode is required — see Section 6.
supplierProductCode	string	CONDITIONAL	Either this or buyerProductCode is required — see Section 6.
buyerProductGtin / supplierProductGtin	string	OPTIONAL	Standard product identifiers, when available.
buyerProductUPC / supplierProductUPC	string	OPTIONAL	Standard product identifiers, when available.
buyerProductPackType	string	BUSINESS REQUIREMENT	Pack/case type shipped.
substituted	boolean	BUSINESS REQUIREMENT	true if this line substitutes a different product than originally ordered.
substitutedProductCode	string	CONDITIONAL	The original product code, when substituted is true.

QUANTITY

FIELD	TYPE	REQUIREMENT	DESCRIPTION
quantity	integer	BUSINESS REQUIREMENT	Quantity ordered, for reference.
shippedQuantity	integer	API REQUIREMENT	Quantity actually shipped on this line. This is the number of record for the ASN.

PHYSICAL & LOGISTICS

FIELD	TYPE	REQUIREMENT	DESCRIPTION
grossWeight / netWeight / itemWeight / weightUOM	number / string	BUSINESS REQUIREMENT	Weight specs used for freight and load planning.
length / width / height / dimensionUom	number / string	OPTIONAL	Case dimensions, when available.
loadFreight	number	OPTIONAL	Freight amount allocated to this line.

TRACEABILITY & COMPLIANCE

FIELD	TYPE	REQUIREMENT	DESCRIPTION
countryOfOrigin	string	BUSINESS REQUIREMENT	Country of origin for this line. A compliance detail, not a schema constraint — get it right even though the API won't reject a wrong value.
bioengineered	string ("Yes"/"No")	BUSINESS REQUIREMENT	Bioengineered-food disclosure. Reflects a federal disclosure requirement; carry it through accurately.
shipDate / harvestDate / lotNumber	string	BUSINESS REQUIREMENT	Ship and harvest dates and lot number for this line.
traceInfos	array	BUSINESS REQUIREMENT	One entry per traceable unit on this line — see below. Central to lot-level traceability and recall response.

RELATED ARRAYS

FIELD	TYPE	REQUIREMENT	DESCRIPTION
charges	array	CONDITIONAL	Line-level allowances/charges. Same shape as header charges (Section 5).
comments	array	OPTIONAL	Free-text notes tied to this line. Each comment string is limited to 254 characters.

traceInfos (per line item)

This is the heart of the ASN: one entry per traceable unit shipped on the line.

FIELD	TYPE	REQUIREMENT	DESCRIPTION
bol	string	BUSINESS REQUIREMENT	Bill of lading number for this traceable unit.
coo	string	BUSINESS REQUIREMENT	Country of origin (coo = "country of origin").
sscc	string	BUSINESS REQUIREMENT	Serial Shipping Container Code identifying the physical unit/pallet.
lotNumber	string	BUSINESS REQUIREMENT	Lot number for this unit — the key to recall response and traceability.
harvestDate	string	BUSINESS REQUIREMENT	Harvest date for this unit, for perishable/traceable items.
growingRegion	string	OPTIONAL	Growing region, when tracked.
expiryDate	string	OPTIONAL	Expiration/best-by date, when applicable.

FIELD	TYPE	REQUIREMENT	DESCRIPTION
qty	integer	BUSINESS REQUIREMENT	Quantity covered by this traceability record.
shipFromDuns	string	OPTIONAL	Ship-from location for this specific unit, if it differs from the line default.

charges (header and line level)

FIELD	TYPE	REQUIREMENT	DESCRIPTION
chargeCode	string	CONDITIONAL	Only mandatory if charge information is given.
chargeName	string	BUSINESS REQUIREMENT	Human-readable charge description.
chargeAmount	number	BUSINESS REQUIREMENT	Amount of the charge (negative for allowances/discounts).
chargeTypeCode / prorateByCode / applyByCode	string	OPTIONAL	Classification and proration rules for the charge.
thirdPartyCode / thirdPartyFlag	string / boolean	OPTIONAL	Whether a third party is responsible for the charge.
includedInLC	boolean	OPTIONAL	Whether the charge is already included in the line's contract price.

6 Conditional field rules

These pairs are each “one of the two is required” — the API rejects the request if neither is present:

PROVIDE AT LEAST ONE OF...	IDENTIFIES...
buyerProductCode OR supplierProductCode	The product on each line.
buyerDuns OR buyerCode	The buyer.
deliveryDuns OR deliveryCode	The delivery location.
supplierDuns OR supplierCode	You, the supplier.

API REQUIREMENT

chargeCode is required only when a charges entry is present — an empty or omitted charges array needs no chargeCode.

7 Business rules & compliance

TRACEABILITY

traceInfos — lot number, harvest date, country of origin, and SSCC — is what makes a shipment traceable back to its source. It's not enforced by the schema, but it's the data your buyer (and, for many produce items, food-safety regulation) relies on if a recall or trace-back request ever comes in. Populate it accurately for every traceable line, not just when convenient.

BIOENGINEERED DISCLOSURE

bioengineered reflects a federal food-labeling disclosure, not an internal Procurant flag. Get this value from your own product master rather than defaulting it, and keep it in sync if a product's status changes.

LOCATION IDENTIFIERS

As in Document 2, Duns/Code values must match your trading-partner setup in Procurant. A shipment can be schema-valid and still misroute if these don't match.

8 Sample request

SAMPLE ASN REQUEST BODY

```
{
  "poNumber": "007350826280",
  "soNumber": "108513",
  "status": "Shipped",
  "subStatus": "Shipped",
  "shipDate": "2026-09-01T11:00:00.000+0000",
  "deliveryDate": "2026-09-02T05:00:00.000+0000",
  "routing": "FOB Carrier",
  "deliveryLocation": "Costco West Bountiful UT - 573 W 100 N",
  "deliveryDuns": "1033918430735",
  "shipFromLocation": "Hagerman Canyon Farms",
  "shipFromDuns": "0784047230001",
  "supplierName": "Hagerman Canyon Farms",
  "supplierDuns": "078404723",
}
```

```

"buyerName": "Costco Wholesale",
"buyerDuns": "103391843",
"purchaseOrderLines": [
  {
    "buyerProductCode": "4032",
    "quantity": 30,
    "shippedQuantity": 30,
    "countryOfOrigin": "USA",
    "bioengineered": "No",
    "charges": [
      {
        "chargeCode": "ZZZZ~A",
        "chargeName": "Costco Allowance",
        "chargeAmount": -59.1,
        "thirdPartyFlag": false
      }
    ],
    "traceInfos": [
      {
        "bol": "108513",
        "coo": "USA",
        "sscc": "086001343042419908",
        "lotNumber": "HCF-260901-04",
        "harvestDate": "2026-08-30T00:00:00.000+0000",
        "qty": 30
      }
    ]
  }
],
"comments": []
}

```

9 Fields seen in production, not yet in this spec

Current production ASN records include several header-level flags not covered in the previous version of this specification. Most look like Procurant-computed or account-level fields rather than values you need to submit — but confirm with your integration contact before assuming either way.

FIELD	NOTE
crossDockFlag	Boolean; likely mirrors whether a crossDock location block applies.
docRevision / version	Revision counters, consistent with the Purchase Order schema (Document 2).
totalBuyerAmount / totalSupplierAmount / totalLineWeight / totLoadFreight / buyerTotFreight / supplierTotFeight / buyerTotHeaderChg / supplierTotHeaderChg / buyerTotLineChg / supplierTotLineChg	Roll-up totals. Note production data spells the supplier freight field supplierTotFeight (not "Freight").

FIELD	NOTE
receivingBRRuleEnabled / suppressSupplierTrigger / sendCommissionQty / sendGrowingRegionPMA / sendNonSSCC / sendShipFromDuns / sendShipToDuns	Account-level configuration flags. Appear to reflect your trading-partner setup rather than per-shipment data.
addItemBR / deliveryDateModFlag	Internal business-rule/change flags, consistent with the Purchase Order schema.

RECOMMENDED NEXT STEP

These fields were identified by comparing this specification against current production sample data, not against Procurant's internal API contract. Confirm with your Procurant engineering/integration contact before building logic that depends on them.