

# NP Inventory Sentinel

Working-capital control for stockout timing, excess inventory and human-reviewed replenishment.



Version 1.0.0

Local evidence

No stock writes

Multishop-aware

**The core rule:** Inventory Sentinel prepares evidence and non-binding drafts. It never changes native stock, creates a supplier commitment, sends a purchase order, changes a product or contacts an external service.

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## 1. Install

- 1 Back up the shop using the normal release process.
- 2 Open **Modules** → **Module Manager** and upload `npinventorysentinel-1.0.0.zip`.
- 3 Select **Install**. The module creates only tables prefixed `npis_`.
- 4 Open **Statistics** → **Inventory Sentinel**. In multishop, select the intended shop before configuring policy or supplier rules.

Uninstall removes the module's local metrics, snapshots, rules, drafts, incidents, audits, configuration and tab. It does not change the catalog, native suppliers, orders or stock.

## 2. Run the first analysis

Select **Analyze now**. Each run is bounded by the configured batch size. Repeat until the pending count reaches zero, or schedule the signed daily URL.

The overview separates four questions:

- **Revenue at risk proxy**: directional exposure inside uncovered replenishment time, not guaranteed lost sales.
- **Known-cost excess cash**: only inventory with explicit current cost evidence.
- **Reviewable reorder cash**: suggested units multiplied by known cost; nothing has been ordered.
- **Decision-ready evidence**: how much of the catalog has sufficient history and stock observation.

ACTION LAYER

Inventory priority queue

Ranked by risk timing and cash exposure. Every recommendation remains reviewable.

SKU

STATE

AVAILABLE

COVER

RECOMMEND

RISK

Lost Mary BM600 Triple Mango

6941976212667

OVERSTOCK

Medium confidence

1141

0 incoming

1,528.3 days

0.75/day

0

€0.00

€0.00

Croston Sparse

Envio

ENVIO

DEAD STOCK

Unknown confidence

9984

0 incoming

—

0.00/day

0

€0.00

€0.00

No Demand

Lost Mary BM600 Watermelon Ice 20mg

6941976212681

DEAD STOCK

Unknown confidence

1513

0 incoming

—

0.00/day

0

€0.00

€0.00

Croston Sparse

Neovap Nicokit Salt 10ml

NIC-497-10451 · NIC-497-10451-20MG

DEAD STOCK

Unknown confidence

113

0 incoming

—

0.00/day

0

€0.00

€0.00

No Demand

Hellvape Dead Rabbit R Tank

ATO-62-5359 · ATO-62-5359-NEGRO-MATE

DEAD STOCK

Unknown confidence

110

0 incoming

—

0.00/day

0

€0.00

€0.00

No Demand

Lost Mary BM600 Blue Razz Ice 20mg

6941976212476

DEAD STOCK

Unknown confidence

1146

0 incoming

—

0.00/day

0

€0.00

€0.00

Croston Sparse

Drifter Bar Salts Sweet Strawberry Ice 10ml

SAL-462-7547 · SAL-462-7547-5MG

DEAD STOCK

Unknown confidence

69

0 incoming

—

0.00/day

0

€0.00

€0.00

No Demand

Lost Mary BM600 Grape

6941976212544

DEAD STOCK

Unknown confidence

986

0 incoming

—

0.00/day

0

€0.00

€0.00

Croston Sparse

EVIDENCE HEALTH

Can the numbers be trusted?

0.0%

directional or complete

Current cost coverage

100.0%

Catalog processing

0 pending

1

Honest by design

Low confidence remains visible. Missing cost withholds cash totals, and no result becomes a supplier order automatically.

Every row shows state, confidence, method, stock position and recommendation evidence.

### 3. Understand evidence and confidence

| METHOD                   | WHEN USED                                                          | IMPORTANT LIMITATION                                                                |
|--------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Stock-adjusted velocity  | At least 14 captured stock days with meaningful in-stock coverage. | Requires the daily job to build availability history.                               |
| Recency weighted         | Regular demand with enough calendar history.                       | Recent periods receive more weight but do not predict promotions or seasonality.    |
| Croston-family sparse    | Intermittent selling days.                                         | Zero-demand probability decays obsolete spikes; low confidence remains directional. |
| No demand / insufficient | No eligible valid-order demand or unusable evidence.               | No demand is invented and no precise stockout date is shown.                        |

High confidence requires mature demand plus daily stock evidence. Medium is directional. Low or unknown evidence can still identify a review need, but precise stockout dates are withheld. Velocity below 0.001 unit per day is operationally zero so an old sale cannot trigger an MOQ order.

**Missing cost is not zero.** The module withholds reorder-cash and excess-cash claims until it can resolve explicit supplier cost, native product-supplier cost, an active NP Margin Sentinel cost rule, or wholesale price.

### 4. Add supplier planning rules

A supplier rule is local planning evidence. Saving one never creates or changes a native PrestaShop supplier.

- Lead time: 0–365 days.
- Safety: 0–180 days.
- Target cover: 1–730 days and not lower than lead time.
- MOQ and pack: 1–1,000,000 units.
- Cost: blank is unknown; explicit zero is known zero.

Download the template and keep its exact header:

```
reference,combination_reference,supplier_name,supplier_code,unit_cost,currency
```

Import is limited to 1 MB and 2,000 rows. References must resolve uniquely in the selected shop. Any invalid row cancels the complete import.

ONE SKU

**Add or update a supplier rule**  
References must resolve uniquely inside this shop.

Referencia del producto

Combination reference

Supplier name

Supplier code

Unit cost (blank = unknown)

Currency

EUR

Lead time days

14

MOQ

1

Pack size

1

Safety days

7

Target cover days

45

Internal note

Save supplier rule

BULK LIBRARY

[Download template](#)

**Import strict supplier CSV**  
Up to 1 MB and 2,000 rows. Validation is all-or-nothing.

⬆

Choose CSV file  
or paste exact CSV below

Choose File

No file chosen

CSV content

reference,combination\_reference,supplier\_name,supplier\_code,unit\_cost,currency,lead\_time\_days,moq,pack\_size,safety\_days,target\_days,note

Validate and import

Manual and bulk paths share the same validation and shop/currency boundary.

## 5. Review replenishment

The reorder point combines lead-time demand with the larger of configured safety demand and bounded variability. The target quantity includes target-cover demand. Open quantities from explicitly ordered drafts enter the stock position; unapproved drafts do not.

1. Filter to stockout risk or reorder rows.
2. Read confidence, method and captured stock days.
3. Verify available and incoming quantities in native operations.
4. Confirm supplier, lead time, MOQ, pack and cost.
5. Select only reviewed rows and create a non-binding draft.

A SKU already present in an open draft is marked **In draft** and cannot be duplicated through the batch action.

REPLENISHMENT DESK

Review what to buy—and why

Recommendations include open incoming stock and supplier constraints. Selecting rows creates non-binding drafts only.

Search SKU, product or supplier

All states

Filter

☐ Select all visible recommendations

Optional internal draft note

Create purchase draft 0

| PRODUCT / SKU                                                                                                                        | EVIDENCE                                                    | STOCK POSITION                                                       | SUPPLIER RULE                                                     | RECOMMENDATION                                         | RISK PROXY                                              |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------|
| <div>—</div> <div>Lost Mary BM600 Triple Mango</div> <div>6941976212667</div> <div>OVERSTOCK</div>                                   | <div>Medium</div> <div>Croston Sparse · 1 stock days</div>  | <div>1141 available</div> <div>0 incoming · 1,528.3 days cover</div> | <div>Verdant Wholesale</div> <div>42d lead · MOQ 6 · pack 6</div> | <div>0 units</div> <div>€0.00 · €2.70 unit cost</div>  | <div>€0.00</div> <div>directional, not guaranteed</div> |
| <div>—</div> <div>Envio</div> <div>ENVIO</div> <div>DEAD STOCK</div>                                                                 | <div>Unknown</div> <div>No Demand · 1 stock days</div>      | <div>9984 available</div> <div>0 incoming · — cover</div>            | <div>Atelier Stock</div> <div>35d lead · MOQ 6 · pack 6</div>     | <div>0 units</div> <div>€0.00 · €2.70 unit cost</div>  | <div>€0.00</div> <div>directional, not guaranteed</div> |
| <div>—</div> <div>Lost Mary BM600 Watermelon Ice 20mg</div> <div>6941976212681</div> <div>DEAD STOCK</div>                           | <div>Unknown</div> <div>Croston Sparse · 1 stock days</div> | <div>1513 available</div> <div>0 incoming · — cover</div>            | <div>Northstar Supply</div> <div>28d lead · MOQ 6 · pack 6</div>  | <div>0 units</div> <div>€0.00 · €2.70 unit cost</div>  | <div>€0.00</div> <div>directional, not guaranteed</div> |
| <div>—</div> <div>Neovap Nicokit Salt 10ml</div> <div>NIC-497-10451 · NIC-497-10451-20MG</div> <div>DEAD STOCK</div>                 | <div>Unknown</div> <div>No Demand · 1 stock days</div>      | <div>113 available</div> <div>0 incoming · — cover</div>             | <div>Verdant Wholesale</div> <div>42d lead · MOQ 6 · pack 6</div> | <div>0 units</div> <div>€0.00 · €36.10 unit cost</div> | <div>€0.00</div> <div>directional, not guaranteed</div> |
| <div>—</div> <div>Hellvape Dead Rabbit R Tank</div> <div>ATO-62-5359 · ATO-62-5359-NEGRO-MATE</div> <div>DEAD STOCK</div>            | <div>Unknown</div> <div>No Demand · 1 stock days</div>      | <div>110 available</div> <div>0 incoming · — cover</div>             | <div>Verdant Wholesale</div> <div>42d lead · MOQ 6 · pack 6</div> | <div>0 units</div> <div>€0.00 · €29.80 unit cost</div> | <div>€0.00</div> <div>directional, not guaranteed</div> |
| <div>—</div> <div>Lost Mary BM600 Blue Razz Ice 20mg</div> <div>6941976212476</div> <div>DEAD STOCK</div>                            | <div>Unknown</div> <div>Croston Sparse · 1 stock days</div> | <div>1146 available</div> <div>0 incoming · — cover</div>            | <div>Verdant Wholesale</div> <div>42d lead · MOQ 6 · pack 6</div> | <div>0 units</div> <div>€0.00 · €2.70 unit cost</div>  | <div>€0.00</div> <div>directional, not guaranteed</div> |
| <div>—</div> <div>Drifter Bar Salts Sweet Strawberry Ice 10ml</div> <div>SAL-462-7547 · SAL-462-7547-5MG</div> <div>DEAD STOCK</div> | <div>Unknown</div> <div>No Demand · 1 stock days</div>      | <div>69 available</div> <div>0 incoming · — cover</div>              | <div>Atelier Stock</div> <div>35d lead · MOQ 6 · pack 6</div>     | <div>0 units</div> <div>€0.00 · €41.50 unit cost</div> | <div>€0.00</div> <div>directional, not guaranteed</div> |
| <div>—</div> <div>Lost Mary BM600 Grape</div> <div>6941976212544</div> <div>DEAD STOCK</div>                                         | <div>Unknown</div> <div>Croston Sparse · 1 stock days</div> | <div>986 available</div> <div>0 incoming · — cover</div>             | <div>Atelier Stock</div> <div>35d lead · MOQ 6 · pack 6</div>     | <div>0 units</div> <div>€0.00 · €2.70 unit cost</div>  | <div>€0.00</div> <div>directional, not guaranteed</div> |

The queue explains why a quantity exists before allowing a draft.

## 6. Operate purchase drafts

| STATE              | PLANNING EFFECT                                                                |
|--------------------|--------------------------------------------------------------------------------|
| Draft              | Non-binding review only; quantities are not incoming.                          |
| Ordered            | Open quantities enter incoming-stock planning. Nothing is sent automatically.  |
| Partially received | Only the remaining open quantity stays incoming.                               |
| Received           | No remaining incoming quantity. Native stock still must be updated separately. |
| Cancelled          | Removed from incoming planning; history remains audited.                       |

Export CSV for an approved external supplier workflow. Mark ordered only after a real commitment exists outside the module. Record expected-date changes and each partial receipt; every action stores employee, old/new state, reason and timestamp.

PURCHASE DESK

Non-binding purchase drafts

Only "Ordered" quantities enter the incoming-stock calculation. No email, supplier API, or native stock update is performed.

All states

Filter

No purchase drafts yet

Select reviewed recommendations in the replenishment queue to create one.

Open replenishment

Receipt tracking changes only the planning ledger and never native stock.

## 7. Work the incident inbox

Initial incident types cover out of stock, stockout timing, overstock, dead stock, missing supplier rules, late incoming quantities and immature decision evidence.

- **Acknowledge:** accept review ownership.
- **Mute:** suppress notifications for 24 hours, seven days or indefinitely while analysis continues.
- **Recovering:** supporting evidence cleared, pending human verification.
- **Resolve:** explicitly close after verification. New supporting evidence can reopen it.

Seasonality, strategic stock and promotions require merchant judgment. The module never starts a clearance, changes price or auto-orders.

## 8. Signed cron, alerts and retention

Under Settings, reveal the signed URL only when configuring a protected server scheduler. Run it daily; larger catalogs may need repeated bounded calls until pending reaches zero.

```
curl --fail --silent 'SIGNED_URL' >/dev/null
```

Missing or wrong tokens receive HTTP 403. Disabled observation receives 409. Valid runs are locked, shop scoped, cache-disabled and bounded by batch size.

If the signed URL is exposed or scheduler ownership changes, use **Rotate and reveal new URL**. The previous URL is revoked immediately.

Optional incident email uses the existing shop mail transport, a 15–1,440 minute cooldown and a daily cap of 1–20. Default evidence retention is 730 days. Cleanup deletes bounded batches of expired snapshots, run logs and eligible closed workflow history.

## 9. Privacy, multishop and diagnostics

The module persists no customer identity, contact data, address, IP, cookie ID, payment data, request body, response body or order reference. It reads valid order lines only to aggregate SKU/date demand.

Every owned row and configuration value is shop scoped. Each shop receives a distinct signed URL. Active shop currencies normalize planning cost into that shop's default currency.

The redacted diagnostic contains platform versions, allowlisted settings, aggregate counts, summary percentages, incident rule/state metadata and bounded run health. It omits catalog references, supplier identity, employee identity, database details and tokens.

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## 10. Troubleshooting

### Everything is unknown after install

Run the first full catalog scan. Confidence improves only as valid demand and daily stock snapshots accumulate.

### Cash totals show a dash or zero coverage

Add explicit supplier cost or verify native supplier/wholesale evidence. Missing cost is intentionally withheld.

### A CSV row is ambiguous

Make the reference unique in the selected shop or provide the exact combination reference. One invalid row cancels the import.

### No recommendation is selectable

The quantity may be zero, the supplier rule may be missing, or the SKU may already be in an open draft.

### A recorded receipt did not change stock

This is intentional. Update native inventory through the shop's normal warehouse workflow, then rerun analysis.

### Cron returns 409

Observation may be disabled or another run may hold the shop lock. Retry after the current bounded run.

### Need support evidence

Download **Redacted diagnostic**. Do not send the signed URL, raw database configuration or unreviewed customer/order exports.

