**PRD-25 — Rules of Origin & Preference Determination**

*(Adds non-preferential & preferential origin; BOM logic; supplier declarations; certificates)*  
**Regulatory anchor:** EU non-preferential & preferential origin guidance; each jurisdiction applies its own rule set. [Taxation and Customs Union+2Taxation and Customs Union+2](https://taxation-customs.ec.europa.eu/customs/international-affairs/origin-goods/non-preferential-rules-origin_en?utm_source=chatgpt.com)

**Intent**  
Compute **non-preferential** and **preferential** origin per jurisdiction, generate evidence (supplier declarations, BOM calc, certificates), and surface origin in downstream decisions/labels.

**Preconditions**

* Product has: country of origin (if known), BOM (for kits), supplier links.
* Catalogs: processing rules (CTC, RVC, specific processing), FTA rule tables, form templates (supplier declaration, certificate).

**Flow (happy path)**

1. **Scope & Jurisdiction**: user selects corridor (import/export country). System loads the right rule set (non-preferential vs FTA-specific).
2. **Data Gather**: pull governed attributes (PRD-12), component origins, values/weights (read-only), and **Supplier Declarations** if present.
3. **Compute**:
   * **Non-preferential**: substantial transformation tests (e.g., Change in Tariff Classification).
   * **Preferential/FTA**: apply product-specific rule (RVC, weight %, process list), accumulation/roll-up on BOM.
4. **Explain**: show **WHY Card** (rule used, inputs, thresholds met/missed).
5. **Decide & Evidence**: store **Origin Determination Version** with inputs & result; generate:
   * **Long-Term Supplier Declaration** request or record (if missing).
   * **Certificate of Origin** draft for the corridor.
6. **Publish**: origin attached to product version and embedded in orders/shipments; events emitted.

**Edge cases**

* Missing component origin/value → hold with one-click request to supplier.
* Multiple FTAs applicable → compute all; user picks best with WHY.
* Retroactive rule change → re-compute; produce **Origin ImpactDelta**.

**Done when**

* For a product/corridor, the app shows **non-preferential** and (if relevant) **preferential** origin, with reproducible calculation + evidence pack.