



Notice to applicant.

# National Guideline for Issuing Product and Location Identifiers

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## 1. Purpose & Scope

This guideline defines the **mandatory national requirements** for issuing **Product Identifiers (Trade Item Number)** and **Location Identifiers (Location Number)** within a **national Track & Trace ecosystem** aligned with **international identification and traceability standards**. The guidelines apply to:

- Authorized identifier issuing entities
- Coding and serialization service providers
- Technology and solution vendors
- National registries and validation services
- Systems integrated with the national traceability platform

This document establishes **global equivalency**, ensuring interoperability with international supply-chain, regulatory, and traceability systems.

## 2. Global Identification Principles

All identifiers issued under this guideline shall comply with the following **international principles**:

- Identifiers are **keys**, not data containers
- No business, regulatory, or geographic meaning shall be embedded in the identifier
- Identifiers shall be **numeric-only** and machine-readable
- Identifiers shall be **globally unique**
- Identifiers shall be **permanent** and **non-reusable**
- Identifier lifecycle shall be centrally governed
- Trust shall be established through authoritative validation

*Technical readability does not imply regulatory trust.*

## 3. Trust & Governance Model

- **The National Regulatory Authority acts as the:**
  - a. Issuing Authority
  - b. Validation Authority
  - c. Trust Anchor
- **Recognition of issued identifiers is:**
  - a. Conditional Subject to continuous compliance
  - b. Revocable in case of violations

Issuance rights are granted only to entities authorized and supervised by the authority.

## 4. National Central Registry Requirements

A **National Central Registry** shall serve as the **single source of truth** for all issued identifiers and must:

- Store all issued product and location identifiers
- Enforce uniqueness and non-reusability
- Maintain full lifecycle status (**Active / Inactive / Withdrawn**)
- Preserve historical records without overwrite
- Maintain complete audit trails
- Support secure lookup and validation services
- Provide official validation APIs

Any identifier not registered in the Central Registry is considered **invalid by design**.

## 5. Product Identifier (Trade Item Number) Issuance Guidelines

### 5.1 Identifier Structure

- Fixed-length numeric identifier
- Preferred length: **14 digits**
- Check digit calculated using an international Mod-10 algorithm
- No embedded intelligence or classification logic

### 5.2 Allocation Rules

- One identifier per unique product and packaging level
- Identifier shall never change during the product lifecycle
- Identifier shall never be reassigned or reused
- Packaging hierarchy relationships are mandatory

### 5.3 Serialization

- Product identifiers shall support serialization
- Serialized identifiers consist of:  
Product identifier and unique serial number
- Serial numbers shall be:
  - 1) Unique
  - 2) non-repeating
  - 3) Fixed-length

Note: Serial reuse is strictly prohibited

## 6. Location Identifier (Location Number) Issuance Guidelines

### 6.1 Identifier Structure

- Fixed-length numeric identifier
- Length: **13 digits**
- Check digit calculated using an international Mod-10 algorithm

### 6.2 Permanency Rule

The location identifier **shall not change** due to:

- Name changes
- Address changes
- Ownership changes

The identifier is deactivated only if the location permanently ceases to exist. Deactivated identifiers shall **never be reused**.

### 6.3 Location Scope

Location identifiers may represent:

- Legal entities
- Physical locations
- Functional locations

## 7. Mandatory Master Data & Attributes

### 7.1 Mandatory Data for Location Identifier Issuance

#### Legal Entity Attributes

- Registered legal name
- Commercial registration number
- Tax identifier
- Regulatory license number
- License validity dates
- Legal status

### Location Attributes

- Location name
- Location type
- Full postal address
- Administrative region and country
- Geographic coordinates (recommended)
- Operational status
- Activation and deactivation dates

No location identifier shall be issued without validated legal and licensing data.

## 7.2 Mandatory Product Attributes for Product Identifier Issuance

### A. Regulatory Attributes

Attribute	Description
<b>Product Trade Name</b>	Official registered name
<b>Marketing Authorization Holder</b>	Legal entity
<b>Authorization Number</b>	Issued by authority
<b>Authorization Status</b>	Active / Suspended / Withdrawn
<b>Authorization Validity</b>	Issue & expiry dates
<b>Product Category</b>	Prescription / OTC / Controlled

### B. Pharmaceutical Attributes

Attribute	Description
<b>Dosage Form</b>	Tablet, Capsule, Injection, Syrup, etc.
<b>Strength</b>	e.g. 500 mg, 10 mg/ml
<b>Route of Administration</b>	Oral, IV, IM, Topical
<b>Shelf Life</b>	In months
<b>Storage Conditions</b>	Ambient / Cold Chain / Controlled

### C. Packaging Attributes

Attribute	Description
<b>Packaging Level</b>	Each / Inner / Case / Pallet
<b>Pack Size</b>	Units per pack
<b>Parent Identifier</b>	Mandatory for hierarchy
<b>Repack Indicator</b>	Yes/No

#### D. Serialization Attributes

Attribute	Description
<b>Serialization Indicator</b>	Serialized / Non-serialized
<b>Serial Number Length</b>	Fixed
<b>Serial Number Format</b>	Numeric / Alphanumeric
<b>Randomization Method</b>	Sequential / Random
<b>Serial Reuse</b>	Prohibited

#### E. Governance Attributes

Attribute	Description
<b>Identifier Issue Date</b>	Creation date
<b>Identifier Status</b>	Active / Inactive / Withdrawn
<b>Effective Dates</b>	Start / End
<b>Issuing Authority</b>	National Registry
<b>Audit Trail</b>	full history

**No product identifier shall be issued unless all mandatory product attributes are validated and approved.**

## 8. Barcode, Scanner & Encoding Rules

- 1) Encoding shall comply with internationally recognized **2D barcode** standards
- 2) Identifiers shall be encoded using structured application identifiers
- 3) Proprietary barcode formats are prohibited
- 4) Barcode-level encryption is prohibited
- 5) Vendor-specific encoding schemes are not permitted

Any compliant scanner shall successfully read identifiers issued under this guideline without customization.

## 9. Validation & Lookup API Requirements: A National Validation API is mandatory and shall support:

### Product Identifier Validation

- Structural validation
- Issuing authority verification
- Product status
- Packaging level
- Effective dates

### Location Identifier Validation

- Structural validation
- Location status
- Entity reference
- License reference
- Effective dates

### APIs shall be:

- REST-based
- JSON formatted
- Versioned
- Highly available

## 10. Traceability & System Interoperability

Issued identifiers shall be usable **without transformation** in:

- Traceability event models
- Aggregation and disaggregation workflows
- Shipment and receiving events
- Enterprise resource planning systems
- Regulatory reporting systems

Custom extensions to compensate for non-standard identifiers are not permitted.

## 11. Compliance, Audit & Enforcement

- Continuous compliance is mandatory
- Periodic audits may be conducted
- Issuance privileges may be suspended or revoked
- Non-compliant identifiers may be blocked
- Violations may trigger regulatory escalation

## 12. Non-Compliance Consequences

Non-compliance may result in:

- Identifier rejection
- Event processing failure
- Market onboarding suspension
- Regulatory penalties

## 13. References to International Standards

- International product identification standards
- Global location identification frameworks
- International barcode and symbology standards
- Global traceability and event exchange models
- Pharmaceutical supply-chain traceability guidelines