

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

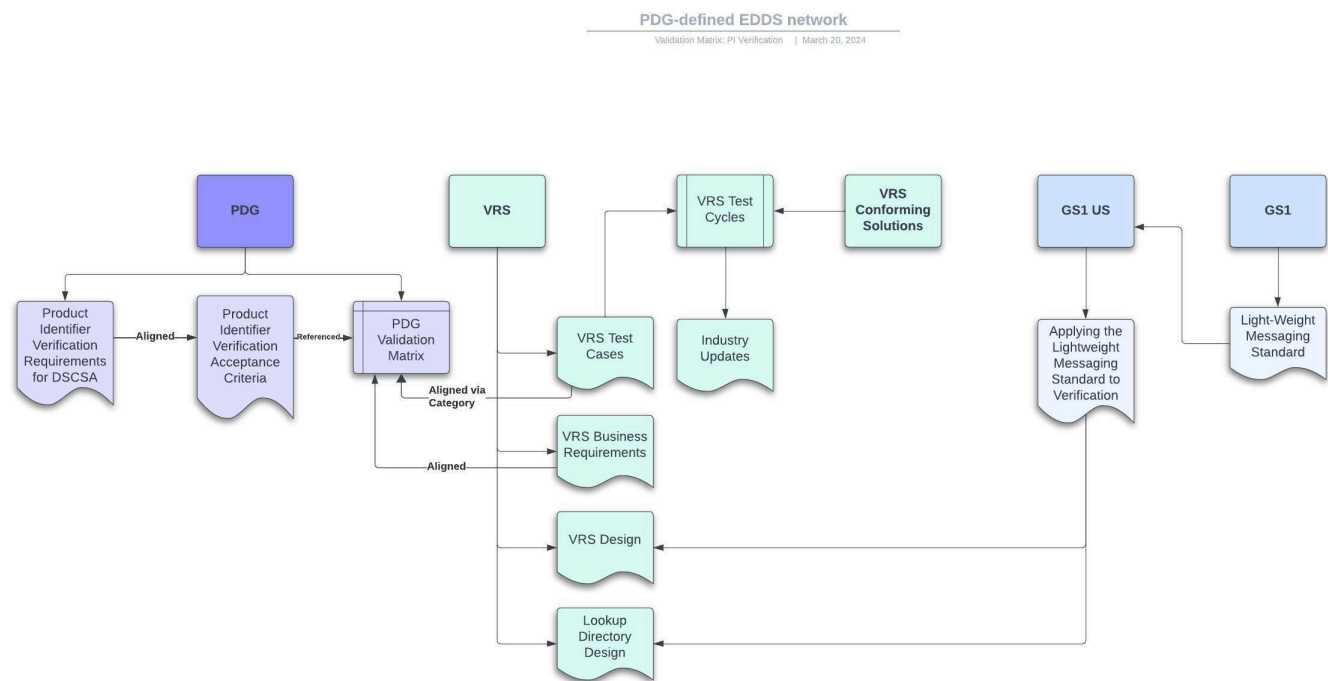


Figure 1 - Alignment between PDG Requirements, Acceptance Criteria and VRS Requirements, Test Cases

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## References

- [HDA VRS Business Requirements for Requesting Processes](#)
- [HDA VRS Business Requirements for Responding Processes](#)
- [HDA VRS Business Requirements for Enabling Processes](#)
- [HDA VRS Business Requirements for Other Processes](#)
- [HDA VRS Current Security Approach](#)
- [Specifications for Responder Connectivity Information \(CI\) Upload to Look-Up Directory \(LD\) and LD Synchronization](#)
- [Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers](#)

## Direct-to-Source Categories (from VRS Test Cases)

1. Connectivity
2. PI Request
3. PI Response
4. Lookup Directory
5. Exceptions
6. Authentication & Authorization

## Direct-to-Replicate Categories

1. Verification against Replicate Data

## Conforming Parties

1. PI Requester (Trade Partner)
2. PI Requesting Solution
3. PI Responder (Trade Partner)
4. PI Responding Solution
5. VRS Lookup Directory – Authoritative Source
6. VRS Lookup Directory – Subscribing
7. Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ10 - Product Identifier Elements

The VRS shall require the following four Product Identifier (PI) data elements to initiate a verification request:

- (1) GTIN
- (2) Serial Number
- (3) Lot Number
- (4) Expiration Date

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-010

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☒ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - PI Verification Request must include all PI attributes
    - o GTIN
    - o Serial Number
    - o Lot Number
    - o Expiration Date

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **PI Verification Responding Solution must return an error if the request does not provide all PI attributes.**
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☒ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **PI Verification Requesting Solution must not allow a request to be made without including all PI attributes.**
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **PI Verification Responding Solution must test whether each request provides all PI attributes.**
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☒ PI Verification Requesting Solution
  - **Pass:** PI Request contains all four PI attributes
  - **Fail:** PI Request is missing any PI attributes
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Pass:**
    - o PI Responding Solution responds only to requests containing all four PI attributes
    - o PI Responding Solution responds with an error to requests missing any PI attribute
  - **Fail:**
    - o PI Responding Solution fails to respond with an error if the request is missing any PI attributes
    - o PI Responding Solution processes verifications of a request missing any PI attribute
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - All Requests include all PI attributes.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - PI Verification Responding Solution only processes verification requests containing all PI attributes.
  - PI Verification Responding Solution responds with an error for a request missing any PI attribute.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - PI Verification Responding Solution responds with an error for a request missing any PI attribute.

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*



# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ11 - Request Types

The VRS shall support multiple request types.- Saleable Returns Verification- Suspect Product Investigation- Illegitimate Product Investigation- Exception Processing- Status Check

### Additional Information

Initially, the only request type planned is "Saleable Returns Verification". However, this functionality will allow for future types of requests (e.g. General Verification). The additional request types should not impact the functionality of how request/response is executed.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-020

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☒ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - PI Verification Requesting Solution Must be capable of creating requests of allowable request types:
    - o Saleable Returns Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- o Suspect Product Investigation
  - o Illegitimate Product Investigation
  - o Exception Processing- Status Check
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - PI Verification Responding Solution Must be capable of responding to the allowable request types:
  - PI Verification Responding Solution Must return an error response if the request type is not allowable.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☒ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Request type must be an allowable request type.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Requests containing an allowable request type are processed (barring other errors).
  - Requests containing an unallowable request type are responded to with an error code.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Pass:** All requests contain an allowable request type.
  - **Fail:** A request is submitted without a request type or an unallowable one.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Pass:**
    - o Barring other errors, requests with an allowable request type are processed.
    - o An error is returned for requests with no request type or unallowable request type.
  - **Fail:**
    - o Requests without a request type or an unallowable request type are processed.
    - o An error is not returned for requests without a request type or an unallowable one.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - All requests contain an allowable request type.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Barring other errors, requests with an allowable request type are processed.
  - An error is returned for requests with no request type or unallowable request type.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Requests can be submitted with no request type or unallowable request type.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- Responses containing no request type or unallowable request type are processed.
  - An error is not provided for requests containing no or unallowable request type.
- ☐ VRS Lookup Directory – Authoritative Source
  - ☐ VRS Lookup Directory – Subscribing
  - ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ12 - System Integration

The VRS shall provide system integration capabilities (e.g. standard APIs) for Requestors to initiate verification requests and to receive responses.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-030

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☒ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - **PI Verification Requesting Solutions Must be capable of interacting with PI Verification Requesting Solutions via the standard API published by the HDA VRS Taskforce.**
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **PI Verification Responding Solutions Must be capable of interacting with PI Verification Requesting Solutions via the standard API published by the HDA VRS Taskforce.**

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☒ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Must be capable of interacting with PI Verification Responding Solutions via the standard API published by the HDA VRS Taskforce.**
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Must be capable of interacting with PI Verification Requesting Solutions via the standard API published by the HDA VRS Taskforce.**
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Pass:** Can interact with PI Verification Responding Solutions via the standard API published by the HDA VRS Taskforce.
  - **Fail:** Can not interact with PI Verification Responding Solutions via the standard API published by the HDA VRS Taskforce.

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Pass:** Can interact with PI Verification Requesting Solutions via the standard API published by the HDA VRS Taskforce.
  - **Fail:** Can not interact with PI Verification Requesting Solutions via the standard API published by the HDA VRS Taskforce.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Can interact with PI Verification Responding Solutions via the standard API published by the HDA VRS Taskforce.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Can interact with PI Verification Requesting Solutions via the standard API published by the HDA VRS Taskforce.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Can not interact with PI Verification Responding Solutions via the standard API published by the HDA VRS Taskforce.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Can not interact with PI Verification Requesting Solutions via the standard API published by the HDA VRS Taskforce.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 9. Considerations:

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*



# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ13 - Single Access Point

The VRS shall provide a single access point (account) to each requesting entity for use of the verification routing services.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-040

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - A Requester Must access the VRS through only one PI Verification Requesting Solution.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☒ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Requester's requests originate from a single PI Verification Requesting Solution.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Pass:** Requester's requests originate from a single PI Verification Requesting Solution.
  - **Fail:** Requester's requests originate from multiple PI Verification Requesting Solutions.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Requester's requests originate from a single PI Verification Requesting Solution.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Requester's requests originate from multiple PI Verification Requesting Solutions.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ14 - Web Portal Interface

The VRS shall provide a web portal user interface to initiate verification requests and to receive responses.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-050

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - **Must provide a web portal interface to initiate verification requests and receive responses.**
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Solution has a web portal interface to initiate verification requests and receive responses.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
  - **Pass:** The solution has a web portal interface to initiate verification requests and receive responses.
  - **Fail:** The solution does not have a web portal interface to initiate verification requests and receive responses.
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The requester can use the solution's web portal interface to initiate verification requests and receive responses.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The requester cannot use a web portal interface to initiate verification requests and receive responses.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ15 - Ability to Download

The VRS web portal shall provide ability to download the requests and responses for the verifications initiated via the portal.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-055

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☒ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - Solution provides download capability for requests and responses.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Solution provides download capability for requests and responses.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Solution provides download capability for requests and responses.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Solution provides download capability for requests and responses.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Pass:** The solution provides a download capability for requests and responses.
  - **Fail:** The solution does not provide download capability for requests and responses.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Pass:** The solution provides a download capability for requests and responses.
  - **Fail:** The solution does not provide download capability for requests and responses.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing



# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Requester can download requests and responses.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Responder can download requests and responses.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Requester cannot download requests and responses.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Requester cannot download requests and responses.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ16 - GS1 DataMatrix Scanning

The VRS shall provide the ability to capture the four Product Identifier (PI) data elements via scan of the GS1 DataMatrix printed on the saleable unit in order to initiate requests.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-060

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - Provides the capability of reading a product bar code for PI data elements to initiate a Verification request.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Can read a product bar code for PI data elements to initiate a Verification request.**
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Pass:** Can read a product bar code for PI data elements to initiate a Verification request.
  - **Fail:** Cannot read a product bar code for PI data elements to initiate a Verification request.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Can read a product bar code for PI data elements to initiate a Verification request.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
  - Cannot read a product bar code for PI data elements to initiate a Verification request.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ17 - Manual Entry of PI

The VRS shall provide the ability to manually enter the four Product Identifier (PI) data elements into the portal to initiate requests.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-070

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - Provides the capability for a requester to enter the PI data elements into a web portal to initiate a PI Verification request.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Provides a web portal for a requester to enter the PI data elements to initiate a PI Verification request.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Pass:** Provides a web portal for a requester to enter the PI data elements to initiate a PI Verification request.
  - **Fail:** Does not provide a web portal for a requester to enter the PI data elements to initiate a PI Verification request.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The requester can enter the PI data elements in the solution to initiate a request.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The requester cannot enter the PI data elements in the solution to initiate a request.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ18 - Data Validation

The VRS shall provide data validation for PI entered for initiating verification requests.

e.g. GTIN is numeric, check digit verification; field lengths are correct

### Additional Information

e.g. GTIN is numeric, check digit verification; field lengths are correct

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-080

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☒ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - The solution provides PI Request and PI Response data attribute validation checks.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The solution provides PI Request and PI Response data attribute validation checks.
- ☐ VRS Lookup Directory – Authoritative Source



# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The solution provides PI Request and PI Response data attribute validation checks.
  - The solution provides alerts to the requester if errors are found.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The solution provides PI Request and PI Response data attribute validation checks.
  - The solution provides alerts to the responder if errors are found.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Pass:** The solution provides PI Request and PI Response data attribute validation checks.
  - The solution provides alerts to the requester if errors are found.
  - **Fail:** The solution does not provide PI Request and PI Response data attribute validation checks.

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Pass:** The solution provides PI Request and PI Response data attribute validation checks.
  - The solution provides alerts to the requester if errors are found.
  - **Fail:** The solution does not provide PI Request and PI Response data attribute validation checks.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The solution provides PI Request and PI Response data attribute validation checks.
  - The solution provides alerts to the requester if errors are found.
  - The solution does not allow requests to be made with data element validation errors.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The solution provides PI Request and PI Response data attribute validation checks.
  - The solution provides alerts to the requester if errors are found.
  - The solution does not allow responses with data element validation errors.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The response will contain data validation error codes and, or messages.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The requester may contact the responder regarding the data validation errors.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ19 - Authorized Requestors

The VRS shall only permit registered and authorized Requestors and other authorized VRS providers to submit verification requests.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-120

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☒ PI Verification Requester (Trade Partner, Authority)
  - [Authorized Requesters are Authorized Trading Partners \(ATP\), ATP-Equivalents, or DSCSA Authorities.](#)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☒ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☒ PI Verification Requester (Trade Partner)
  - [The Requester is an Authorized Requester.](#)
- ☒ PI Verification Requesting Solution
  - [The Requesting Solution is a recognized VRS solution.](#)
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
  - [The Responding solution May refuse to respond to a requester who is not an Authorized Requester.](#)

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- The Responding Solution Will refuse to respond to a requesting solution that is not recognized.

- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - Requesting Solution is recognized in the VRS ecosystem.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The Requester is an Authorized Requester.
  - Requesting Solution is recognized in the VRS ecosystem.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Responding Solution is recognized in the VRS ecosystem.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
  - Pass:
    - o The Requester is an Authorized Requester.
    - o Requesting Solution is recognized in the VRS ecosystem.
  - Fail:

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- o The Requester is not an Authorized Requester or
  - o Requesting Solution is not recognized in the VRS ecosystem.
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The Requester is an Authorized Requester.
  - Requesting Solution is recognized in the VRS ecosystem.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The Responding solution responds to requests from:
    - o Authorized Requesters and
    - o Requesting Solutions recognized in the VRS ecosystem.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The Requester is not an Authorized Requester or
  - Requesting Solution is not recognized in the VRS ecosystem.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The Responding solution responds to requests from:
    - o Non-Authorized Requesters or
    - o Requesting Solutions not recognized in the VRS ecosystem.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ20 - Verification Request Log

The VRS shall maintain a log of the verification requests received, including Date/Time, and identified with the unique Transaction ID.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-130

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☒ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☒ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Maintains a log of requests (including date/time and transaction ID).
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification



# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Maintains a log of requests (including date/time and transaction ID).
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Pass:** Maintains a log of requests (including date/time and transaction ID).
  - **Fail:** Does not maintain a log of requests (including date/time and transaction ID).
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - A log of requests (including date/time and transaction ID) is maintained.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - A log of requests (including date/time and transaction ID) is not maintained.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### REQ21 - Use of Connectivity Information

The VRS shall submit the verification request to the appropriate Responder's repository based on the Connectivity Information (CI) associated to the GTIN and start/end date values in the look-up directory.

The VRS would determine the CI associated to the GTIN based on the scanned PI data. The Verification Request may be submitted from the Requestor's VRS directly to Responder's PI repository or to Responder's PI repository via Responder's VRS provider.

#### Additional Information

The VRS would determine the CI associated to the GTIN based on the scanned PI data. The Verification Request may be submitted from the Requestor's VRS directly to Responder's PI repository or to Responder's PI repository via Responder's VRS provider.

#### Source Document

HDA Verification Router Service Business Requirements Document

#### Source ID

REQ-140

#### Acceptance Criteria

##### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

##### 2. Category:

- ☒ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

##### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - The solution submits requests to the address in the Lookup Directory for the requested GTIN and the start/end date values.
- ☐ PI Verification Responder (Manufacturer, Repackager)

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - Maintains a lookup directory synched to other recognized lookup directories.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The solution submits requests to the address in the Lookup Directory for the requested GTIN and the start/end date values.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Pass:** The solution submits requests to the address in the Lookup Directory for the requested GTIN and the start/end date values.
  - **Fail:** The solution submits requests to an address other than the address in the Lookup

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

Directory for the requested GTIN and the start/end date values.

- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The solution submits requests to the address in the Lookup Directory for the requested GTIN and the start/end date values.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The solution submits requests to an address other than the address in the Lookup Directory for the requested GTIN and the start/end date values.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### REQ22 - Verification Request Data Formats

The VRS shall follow the prescribed data formats and exchange standards to submit the verification request to the Responder's repository.

The VRS Governance body will work with GS1 or other appropriate standards' organizations to establish or refine existing standards (e.g. EPCIS) for verification requests purposes.

#### Additional Information

The VRS Governance body will work with GS1 or other appropriate standards' organizations to establish or refine existing standards (e.g. EPCIS) for verification requests purposes.

#### Source Document

HDA Verification Router Service Business Requirements Document

#### Source ID

REQ-150

#### Acceptance Criteria

##### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

##### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

##### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - Request format Must comply with the GS1 US Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers.
- ☐ PI Verification Responder (Manufacturer, Repackager)

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Request format Must comply with the [GS1 US Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers](#).
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Pass:** Request format complies with the [GS1 US Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers](#).

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- **Fail:** Request format does not comply with the GS1 US Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers.

- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Request format complies with the GS1 US Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Request format does not comply with the GS1 US Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*



# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ23 - Verification Response Data Formats

The VRS shall follow the prescribed data formats and exchange standards to provide the verification response to the Requestor or the Requestor's VRS provider.

The GS1 Lightweight Messaging Standard for Product Verification defines the data formats in support of REQ-150 and REQ-160

### Additional Information

The GS1 Lightweight Messaging Standard for Product Verification defines the data formats in support of REQ-150 and REQ-160

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-160

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☒ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Response format Must comply with the GS1 US Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers.
- ☐ VRS Lookup Directory – Authoritative Source

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - [Response format Must comply with the GS1 US Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers.](#)
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - [Pass: Response format complies with the GS1 US Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers.](#)

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- **Fail:** Response format does not comply with the GS1 US Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers.

- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Response format complies with the GS1 US Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Response format does not comply with the GS1 US Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ24 - Authentication and Security

The VRS shall follow the appropriate authentication and security protocols as established by the Responder when submitting the verification requests to the Responder's repository.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-170

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☒ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - Solution Must adhere to the security approach defined in the HDA VRS document “Current Security Approach”
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Solution Must adhere to the security approach defined in the HDA VRS document “Current Security Approach”
- ☐ VRS Lookup Directory – Authoritative Source

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Solution adheres to the security approach defined in the HDA VRS document “Current Security Approach”.**
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a “pass” or “fail” for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Pass:** Solution adheres to the security approach defined in the HDA VRS document “Current Security Approach”
  - **Fail:** Solution does not adhere to the security approach defined in the HDA VRS document “Current Security Approach”
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Pass:** Solution adheres to the security approach defined in the HDA VRS document

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

“Current Security Approach”

- **Fail:** Solution does not adhere to the security approach defined in the HDA VRS document “Current Security Approach”

- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Solution adheres to the security approach defined in the HDA VRS document “Current Security Approach”
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Pass:** Solution adheres to the security approach defined in the HDA VRS document “Current Security Approach”
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Solution does not adhere to the security approach defined in the HDA VRS document “Current Security Approach”
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Solution does not adhere to the security approach defined in the HDA VRS document “Current Security Approach”
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ25 - Synchronized Lookup Directory Access

Requestors, who choose to build the LD and request capabilities, shall get a copy of the synchronized LD

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-180

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - [Must participate in LD Synchronization as per “Specifications for Responder Connectivity Information \(CI\) Upload to Look-Up Directory \(LD\) and LD Synchronization”.](#)
- ☒ VRS Lookup Directory – Subscribing



# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- Must participate in LD Synchronization as per “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization”.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Solution can synchronize the Look-Up Directory records where they are the authoritative source.
- ☒ VRS Lookup Directory – Subscribing
  - Solution can synchronize Look-Up Directory records from Authoritative Sources.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Pass:**

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- o Can synchronize the Look-Up Directory records where they are the authoritative source as per “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization”.
- **Fail:**
- Can not synchronize their Look-up Directory records with Subscribing solutions.
- ☒ VRS Lookup Directory – Subscribing
  - **Pass:**
    - o Can synchronize Look-Up Directory records from Authoritative Sources as per “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization”.
  - **Fail:**
    - o Can not synchronize Look-up Directory records from Authoritative Sources.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Solution can provide Look-Up Directory records to Subscribing solutions.
- ☒ VRS Lookup Directory – Subscribing
  - Solution can receive Look-Up Directory records from Authoritative Sources.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Look-up directories do not include the complete set of synchronized records.
- ☒ VRS Lookup Directory – Subscribing
  - Look-up directories do not include the complete set of synchronized records.
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ26 - New GTIN

Requestors, who choose to build the LD and request capabilities, shall be notified when a new GTIN is published (via an LD update)

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-190

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - Solution provides a “New GTIN” notification to the Requester when a new GTIN is received.
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - A “New GTIN” received in a synchronization event causes the solution to notify the Requester.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a “pass” or “fail” for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - **Pass:** The solution notifies the requester when a “New GTIN” record is received in a synchronization event.
  - **Fail:** The solution does not notify the Requester when a “New GTIN” record is received in a synchronization event.
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - The Responder is notified of new GTINs in the Look-Up directory.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - The Responder is not notified of new GTINs in the Look-Up directory.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ27 - GTIN Ownership Change

Requestors, who choose to build the LD and request capabilities, shall be notified when a new GTIN ownership change is approved (via an LD update)

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

REQ-200

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - Solution provides an ownership change notification to the Requester when GTIN ownership change is approved.

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - Solution provides an ownership change notification to the Requester when GTIN ownership change is approved.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - **Pass:** The solution notifies the requester when a GTIN ownership is approved.
  - **Fail:** The solution does not notify the requester when a GTIN ownership is approved.
- ☐ Trade Partner performing Direct-to-Replicate Verification



# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - The solution notifies the requester when a GTIN ownership is approved.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - The solution does not notify the requester when a GTIN ownership is approved.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### REQ28 - Valid Responses

The Responder shall provide one of the following responses for a verification request:

- Response – PI Data Elements Verified (T)
- Response – PI Data Elements Not Verified (F)

Note: DSCSA verification “means determining whether the product identifier affixed to, or imprinted upon, a package or homogeneous case corresponds to the standardized numerical identifier or lot number and expiration date assigned to the product by the manufacturer or repackager”. If additional information is known about the status of a PI that would cause the Responder to not want the product to be resold, then the Responder should provide optional information in the response (see RES-030). Refer to the GS1 Lightweight Messaging Standard for Product Verification.

#### Additional Information

In DSCSA verification “means determining whether the product identifier affixed to, or imprinted upon, a package or homogeneous case corresponds to the standardized numerical identifier or lot number and expiration date assigned to the product by the manufacturer or repackager”. If additional information is known about the status of a PI that would cause the Responder to not want the product to be resold, then the Responder should provide optional information in the response (see RES-030). Refer to the GS1 Lightweight Messaging Standard for Product Verification.

#### Source Document

HDA Verification Router Service Business Requirements Document

#### Source ID

RES-010

#### Acceptance Criteria

##### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

##### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☒ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

##### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - [Solution provides a “Verified” or “Not Verified” response for requests that pass validation checks \(Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers\).](#)
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - [Solution provides a “Verified” or “Not Verified” response for requests that pass validation checks \(Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers\).](#)
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a “pass” or “fail” for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Pass:** Solution passes one of the valid responses (Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers).
  - **Fail:** Solution passes a response other than a valid response (Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers).
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Solution passes one of the valid responses (Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers).
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Solution passes a response other than a valid response (Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers).
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 9. Considerations:

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ29 - Additional Status Information

The Responder shall have the option to provide additional status attributes in the verification response for a PI record.

Additional information can be provided by Responders for additional context to the verified product identifier (e.g. recalled lot, do not resell, etc.).

### Additional Information

Additional information can be provided by Responders for additional context to the verified product identifier (e.g. recalled lot, do not resell, etc.).

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

RES-030

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☒ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - [Solution May pass additional information documented in the GS1 US “Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers”.](#)

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - [Solution can pass additional information documented in the GS1 US “Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers”.](#)
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - [Pass: Solution can pass additional information documented in the GS1 US “Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers”.](#)

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- **Fail:** Solution cannot pass additional information documented in the GS1 US “Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers”.

- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Solution:** Additional information may be passed on in the response.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Solution:** Additional information is prevented from passing on in the response.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*



# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ30 - Data Formats

The VRS shall follow the prescribed data formats and exchange standards to provide the verification response to the Requestor or the Requestor's VRS provider.

Refer to the GS1 Lightweight Messaging Standard for Product Verification.

### Additional Information

Refer to the GS1 Lightweight Messaging Standard for Product Verification.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

RES-040

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☒ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☒ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - [Response formats must conform to the GS1 US “Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers”.](#)

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - [Response formats must conform to the GS1 US “Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers”.](#)
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - [Pass: Response format conforms to the GS1 US “Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers”.](#)

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- **Fail:** Response format does not conform to the GS1 US “Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers”.

- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Response format conforms to the GS1 US “Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers”.
  - Requesting solution can process the response.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Response format conforms to the GS1 US “Implementation Guide: Applying the GS1 Lightweight Messaging Standard for DSCSA Verification of Returned Product Identifiers”.
  - Requesting solution cannot process the response.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ31 - Repository Not Found in Lookup Directory

The VRS shall return an error if the Responder's repository is not found in the look- up directory.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

RES-080

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - **Must return an error notification to the Requester if the Responder's repository is not found in the Look-Up directory.**
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Solution returns an error notification to the Requester when the Responder's repository is not found in the Look-Up directory.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - For a request where the Responder's repository is not found in the Look-Up Directory:
    - **Pass:** The Solution notifies the Requester.
    - **Fail:** The solution does not notify the Requester.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution

For a request where the Responder's repository is not found in the Look-Up Directory:

- Solution notifies the Requester that the request cannot be sent.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution

For a request where the Responder's repository is not found in the Look-Up Directory:

- Solution does not notify the Requester that the request cannot be sent.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ32 - Repository Connection Exception

The VRS shall return an error if there are exceptions in reaching the Responder's repository: - No Response from Manufacturer / Product / GTIN Owner Repository

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

RES-090

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - For a request where the Responder's repository cannot be reached:
    - Must return an error notification to the Requester.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - For a request where the Responder's repository cannot be reached:
    - **Solution Must return an error notification to the Requester.**
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - For a request where the Responder's repository cannot be reached:
    - **Pass:** Solution returns an error notification to the Requester.
    - **Fail:** Solution does not return an error notification to the Requester.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification



# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - For a request where the Responder's repository cannot be reached:
    - Solution returns an error notification to the Requester.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - For a request where the Responder's repository cannot be reached:
    - Solution returns an error notification to the Requester.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ33 - VRS Service Down

The VRS shall return an error if the VRS service is down or not available

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

RES-100

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - For a request where the Responder's service is down or unavailable:
    - Must return an error notification to the Requester.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - For a request where the Responder's service is down or unavailable:
    - **Solution returns an error notification to the Requester.**
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - For a request where the Responder's service is down or unavailable:
    - **Pass:** Solution returns an error notification to the Requester.
    - **Fail:** Solution does not return an error notification to the Requester.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - For a request where the Responder's service is down or unavailable:
    - Solution returns an error notification to the Requester.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - For a request where the Responder's service is down or unavailable:
    - Solution returns an error notification to the Requester.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ34 - VRS Log

The VRS shall add to the log of the verification requests maintained the response(s) received, the Responder ID(s), and the Date/Time stamp of the response.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

RES-120

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☒ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - The Solution maintains a log of Requests and Responses (Requester ID, Responder ID, timestamps, etc.).
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The Solution maintains a log of Requests and Responses (Requester ID, Responder ID, timestamps, etc.).
- ☐ VRS Lookup Directory – Authoritative Source

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The Solution can demonstrate a log of Requests and Responses (Requester ID, Responder ID, timestamps, etc.).
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The Solution can demonstrate a log of Requests and Responses (Requester ID, Responder ID, timestamps, etc.).
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Pass:** The Solution can demonstrate a log of Requests and Responses (Requester ID, Responder ID, timestamps, etc.).
  - **Fail:** The Solution cannot demonstrate a log of Requests and Responses (Requester ID, Responder ID, timestamps, etc.).
- ☐ PI Verification Responder (Manufacturer, Repackager)

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☒ PI Verification Responding Solution
  - **Pass:** The Solution can demonstrate a log of Requests and Responses (Requester ID, Responder ID, timestamps, etc.).
  - **Fail:** The Solution cannot demonstrate a log of Requests and Responses (Requester ID, Responder ID, timestamps, etc.).
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The Solution can demonstrate a log of Requests and Responses (Requester ID, Responder ID, timestamps, etc.).
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The Solution can demonstrate a log of Requests and Responses (Requester ID, Responder ID, timestamps, etc.).
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The Solution cannot demonstrate a log of Requests and Responses (Requester ID, Responder ID, timestamps, etc.).
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The Solution cannot demonstrate a log of Requests and Responses (Requester ID, Responder ID, timestamps, etc.).
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

*None*



# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ35 - GTIN Ownership Change

Responders, shall have the ability to initiate a GTIN ownership change when they take over ownership of a product. (to initiate a change in the LD)

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

RES-140

## REQ36 - GTIN Ownership Change Approval

Responders, shall have the ability to approve a GTIN ownership change when requested. (to accept a request to change the LD)

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

RES-150

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Responders must be able to approve GTIN ownership changes, which must be successfully synchronized with subscription solutions.
- ☒ VRS Lookup Directory – Subscribing
  - Solution Must be able to process GTIN ownership Changes.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Responders must be able to approve GTIN ownership changes, which must be successfully synchronized with subscription solutions.
- ☒ VRS Lookup Directory – Subscribing
  - Solution Must be able to process GTIN ownership Changes.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Pass:**
    - Responders can approve GTIN ownership changes and
    - Ownership changes can be successfully synchronized with subscription solutions.
  - **Fail:**
    - Responders cannot approve GTIN ownership changes or
    - Ownership changes cannot be successfully synchronized with subscription solutions.
- ☒ VRS Lookup Directory – Subscribing
  - Ownership changes can be successfully processed.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Responders can approve GTIN ownership changes and
  - Ownership changes are successfully synchronized with subscription solutions
- ☒ VRS Lookup Directory – Subscribing
  - Ownership changes are successfully processed.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Responders cannot approve GTIN ownership changes or
  - Ownership changes are not successfully synchronized with subscription solutions

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Subscribing
  - Ownership changes are not successfully processed.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ37 - New GTIN Owner Capability

Only responders, who “own” the Labeler Code / GCP, shall have the default capability to add a new GTIN for that Labeler Code / GCP.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

RES-160

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Before adding the GTIN record to the Look-Up Directory, check that the Responder owns the Labeler code and Global Company Prefix (GCP) associated with it.
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - The Authoritative Source will check that the Responder owns the Labeler code and Global Company Prefix (GCP) associated with it before adding a GTIN record to the Look-up Directory.
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Pass:** The Authoritative Source checks the ownership of the Labeler Code and GCP before adding a GTIN record to the Look-Up Directory.
  - **Fail:** The Authoritative Source does not check the ownership of the Labeler Code and GCP before adding a GTIN record to the Look-Up Directory.
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - GTIN records in the Look-Up Directory are only added by the Responder that owns the Labeler Code and GCP.
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Possible duplication of GTIN records in the Look-Up Directory.
  - Possible prevention of the valid owner of the associated Labeler Code and GCP to be able to add GTIN records to the Look-Up Directory.
  - Verification requests routed to the incorrect Responder.
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ38 - Lookup Directory Data

The VRS shall have the ability to accept the following data from Responders to maintain the Look-up Directory (LD):

- At the GTIN-level: Global Trade Item Number (GTIN), Responder's Company Name, Responder ID, Connectivity Information, StartDate, End Date (optional)

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-010

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - Subscribing Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”



# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - Subscribing Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - **Pass:** Subscribing Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- **Fail:** Subscribing Look-Up Directory cannot process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”

☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - Subscribing Look-Up Directory can synchronize Look-Up Directory records from Authoritative Sources that adhere to the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
  - Verification Requests are correctly routed.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - Subscribing Look-Up Directory cannot synchronize Look-Up Directory records from Authoritative Sources that adhere to the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
  - Verification Requests may not be correctly routed.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ39 - Responder's Connectivity Data

The VRS shall be able to obtain and store Responders' Repository connectivity information in the Look-up Directory (LD) from any of the following sources: the Responder, another VRS provider, or other external source.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-020

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - The Subscribing Source demonstrates that it can obtain and store Look-Up Directory records from Authoritative Sources, direct from Responders, or other external sources.

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - The Subscribing Source demonstrates that it can obtain and store Look-Up Directory records from Authoritative Sources, direct from Responders, or other external sources.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
  - **Pass:** The Subscribing Source can obtain and store Look-Up Directory records from Authoritative Sources, direct from Responders, or other external sources.
  - **Fail:** The Subscribing Source cannot obtain and store Look-Up Directory records from Authoritative Sources, direct from Responders, or other external sources.

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - The Subscribing Source obtains and stores Look-Up Directory records from Authoritative Sources, direct from Responders, or other external sources.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - The Subscribing Source obtains and stores Look-Up Directory records from Authoritative Sources, direct from Responders, or other external sources.
  - Verification requests could potentially fail to route to the correct Responder.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ40 - Sharing Connectivity Data

The VRS shall make available to other qualified VRS providers the repository connectivity information that was submitted to them.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-030

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☒ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - [The Authoritative Source synchronizes Look-Up Directory records with all recognized Subscribing directories.](#)
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Authoritative Source has established connectivity with all recognized Subscribing Directories.**
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **The Authoritative Source demonstrates that it synchronizes Look-Up Directory records with all recognized Subscribing directories.**
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Pass:** The Authoritative Source can and does synchronize Look-Up Directory records with all recognized Subscribing directories.
  - **Fail:** The Authoritative Source cannot or does not synchronize Look-Up Directory records with all recognized Subscribing directories.

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - Subscribing Directories are provided synchronized Look-Up Directory records.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
  - Some or all Subscribing Directories are not provided synchronized Look-Up Directory records.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None



# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ41 - Multiple Responder Repositories for a GTIN

The VRS' Look-up Directory (LD) shall allow multiple Responder repositories for a single GTIN in order to accommodate scenarios such as product ownership changes (e.g. divestiture, M&A, co-licensed partnerships).

### Additional Information

However, the PI for a single GTIN will be active in one and only one Responder Repository. See Assumptions Section.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-040

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - [Authoritative Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information](#)

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

(CI) Upload to Look-Up Directory (LD) and LD Synchronization.”

- ☒ VRS Lookup Directory – Subscribing
  - Subscribing Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Authoritative Source has established connectivity with all recognized Subscribing Directories.
- ☒ VRS Lookup Directory – Subscribing
  - Subscribing Directory has established connectivity with all recognized Authoritative Sources.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Authoritative Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☒ VRS Lookup Directory – Subscribing
  - Subscribing Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.  
Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Pass:** Authoritative Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
  - **Fail:** Authoritative Look-Up Directory cannot process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☒ VRS Lookup Directory – Subscribing
  - **Pass:** Subscribing Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
  - **Fail:** Subscribing Look-Up Directory cannot process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Authoritative Source can synchronize Look-Up Directory records.
  - Requester's verification requests are routed correctly.
- ☒ VRS Lookup Directory – Subscribing
  - Subscribing Directories can synchronize Look-Up Directory records.
  - Requester's verification requests are routed correctly.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Authoritative Source cannot synchronize Look-Up Directory records.
  - Requester's verification requests may be routed incorrectly.
- ☒ VRS Lookup Directory – Subscribing
  - Subscribing Directory cannot synchronize Look-Up Directory records.
  - Requester's verification requests may be routed incorrectly.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ42 - Lookup Directory Version Control

The VRS shall provide the ability to manage version control for Look-up Directory (LD) updates and to indicate if Repository Connectivity Information is active (e.g. via start/end date range).

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-050

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☒ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☒ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Authoritative Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☒ VRS Lookup Directory – Subscribing

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- Subscribing Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Authoritative Source has established connectivity with all recognized Subscribing Directories.
- ☒ VRS Lookup Directory – Subscribing
  - Subscribing Directory has established connectivity with all recognized Authoritative Sources.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Authoritative Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☒ VRS Lookup Directory – Subscribing
  - Subscribing Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Pass:** Authoritative Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
  - **Fail:** Authoritative Look-Up Directory cannot process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☒ VRS Lookup Directory – Subscribing
  - **Pass:** Subscribing Look-Up Directory can process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
  - **Fail:** Subscribing Look-Up Directory cannot process the Look-Up Directory records containing data elements defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Authoritative Source can synchronize Look-Up Directory records.
  - Requester's verification requests are routed correctly.
- ☒ VRS Lookup Directory – Subscribing
  - Subscribing Directories can synchronize Look-Up Directory records.
  - Requester's verification requests are routed correctly.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Authoritative Source cannot synchronize Look-Up Directory records.
  - Requester's verification requests may be routed incorrectly.
- ☒ VRS Lookup Directory – Subscribing
  - Subscribing Directory cannot synchronize Look-Up Directory records.
  - Requester's verification requests may be routed incorrectly.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*



# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ43 - GTIN Owner and Lookup Directory Updates

The VRS shall provide the ability to ensure Look-up Directory (LD) updates can only be made by the authorized entity (i.e. GTIN owner).

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-060

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Before updating the GTIN record in the Look-Up Directory, check that the Responder owns the Labeler code and Global Company Prefix (GCP) associated with it.
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - The Authoritative Source will check that the Responder owns the Labeler code and Global Company Prefix (GCP) associated with it before updating a GTIN record in the Look-up Directory.
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Pass:** The Authoritative Source checks the ownership of the Labeler Code and GCP before updating a GTIN record in the Look-Up Directory.
  - **Fail:** The Authoritative Source does not check the ownership of the Labeler Code and GCP before updating a GTIN record in the Look-Up Directory.
- ☐ VRS Lookup Directory – Subscribing

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - GTIN records in the Look-Up Directory are only updated by the Responder that owns the Labeler Code and GCP.
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Possible duplication of GTIN records in the Look-Up Directory.
  - Possible prevention of the valid owner of the associated Labeler Code and GCP to be able to update GTIN records in the Look-Up Directory.
  - Verification requests routed to the incorrect Responder.
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ44 - System Interfaces for Responders

The VRS shall provide system interfaces (e.g. standard APIs) for Responders to update/append the VRS Look-up Directory (LD).

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-070

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☒ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - [Solution can synchronize Look-Up Directory records using the standard API defined in the “Specifications for Responder Connectivity Information \(CI\) Upload to Look-Up Directory \(LD\) and LD Synchronization.”](#)
- ☒ VRS Lookup Directory – Subscribing

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- Solution can synchronize Look-Up Directory records using the standard API defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”

☐ Trade Partner performing Direct-to-Replicate Verification

#### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Solution can demonstrate synchronizing Look-Up Directory records using the standard API defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☒ VRS Lookup Directory – Subscribing
  - Solution can demonstrate synchronizing Look-Up Directory records using the standard API defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Pass:** The solution can synchronize Look-Up Directory records using the standard API defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
  - **Fail:** The solution cannot synchronize Look-Up Directory records using the standard API defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☒ VRS Lookup Directory – Subscribing
  - **Pass:** The solution can synchronize Look-Up Directory records using the standard API defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
  - **Fail:** The solution cannot synchronize Look-Up Directory records using the standard API defined in the “Specifications for Responder Connectivity Information (CI) Upload to Look-Up Directory (LD) and LD Synchronization.”
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Look-Up Directory records are synchronized with all Subscribing Directories.
- ☒ VRS Lookup Directory – Subscribing
  - Look-Up Directory records are synchronized with all Authoritative Sources.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Look-Up Directory records are not synchronized with all Subscribing Directories.
  - Verifications may be able to be routed or routed incorrectly.
- ☒ VRS Lookup Directory – Subscribing

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- Look-Up Directory records are not synchronized with all Authoritative Sources.
  - Verifications may be able to be routed or routed incorrectly.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ45 - Responder Access Point

The VRS shall provide a single access point (account) to each responding entity to post data to the Look-up Directory (LD).

### Source ID

ENB-080

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - **A Responder Must access the VRS through only one PI Verification Response Solution.**
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 4. Prerequisites:



# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

*Specify any conditions that need to be met before the interaction can proceed.*

- ☒ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Responder's responses originate from a single PI Verification Response Solution.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Pass:** Responder's responses originate from a single PI Verification Response Solution.
  - **Fail:** Responder's responses originate from multiple PI Verification Response Solutions.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☒ PI Verification Requesting Solution
  - Responder's responses originate from a single PI Verification Response Solution.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Responder's responses may originate from multiple PI Verification Response Solutions.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ46 - Responder Authorization

The VRS shall have a process to register and authorize Responder entities with a valid Responder ID in order to use the verification routing services.

### Additional Information

GLN will be used.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-090

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☒ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
  - [The Responder is an Authorized Trading Partner.](#)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☒ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - [The Responding solution Must authorize the Responder as an Authorized Trading Partner.](#)
  - [The Responding solution Must register authorized Responders.](#)

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☒ PI Verification Responder (Manufacturer, Repackager)
  - The Responder is an Authorized Trading Partner.
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Solution has a process to authorize and register Responders.
  - Solution: Responder's ATP, ATP-Equivalent, or DSCSA Authority Verifiable Credential may be used.
  - The Responder is an Authorized Trading Partner.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- **Pass:** The Responder is an Authorized Responder.
  - **Fail:** The Requester cannot be proven an Authorized Responder.
- ☐ VRS Lookup Directory – Authoritative Source
  - ☐ VRS Lookup Directory – Subscribing
  - ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☒ PI Verification Requester (Trade Partner, Authority)
  - The Requester accepts verifications from the Responder.
- ☒ PI Verification Requesting Solution
  - The Requesting solution accepts responses from Authorized Trading Partner Responders.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☒ PI Verification Requester (Trade Partner, Authority)
  - The Requester does not accept verifications from the Unauthorized Responder.
- ☒ PI Verification Requesting Solution
  - The Requesting solution May not accept responses from an Unauthorized Trading Partner Responders.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ47 - GTIN Record Download

The VRS shall allow ability to view and download the list of GTINs and the associated repository connectivity information and restrict view/access to the responding entity's own data.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-100

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Authoritative source Must only allow the Responder who owns the GTIN records to view and download the records and connectivity information.**
- ☐ VRS Lookup Directory – Subscribing

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Authoritative source Must only allow the Responder who owns the GTIN records to view and download the records and connectivity information.**
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Pass:** Authoritative source only allows the Responder who owns the GTIN records to view and download the records and connectivity information.
  - **Fail:**
    - o Authoritative source allows Responders who do not own the GTIN records to view and download the records and connectivity information.

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- o Authoritative source does not allow the Responder who owns the GTIN records to view and download the records and connectivity information.

- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - The Responder who owns the GTIN records can view and download the records and connectivity information, and
  - Responders who do not own the GTIN records are prevented from viewing and downloading the records and connectivity information.
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
  - The Responder who owns the GTIN records is prevented from viewing and downloading the records and connectivity information.
  - Responders who do not own the GTIN records can view and download the records and connectivity information.
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None



# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ48 - GTINS and GCPs

A responder shall only be able to enter GTINs aligned to their GCP / Labeler Code

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-110

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Solution prevents Responders from adding Look-Up Directory records for products whose GTIN does not align with the Responder's GCP or Labeler Code.
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source

**When adding Look-Up Directory GTIN records:**

- The GTIN Must be aligned with the associated GCP.
- The Responder Must have licensed the associated GCP.
- The GTIN Must be aligned with the Labeler Code.
- The Responder Must have registered the Labeler Code.
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source

**Pass:**

- The GTIN is aligned with the associated GCP, and

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- The Responder has licensed the associated GCP, and
- The GTIN is aligned with the Responder's Labeler Code, and
- The Responder has registered the Labeler Code.

**Fail:**

- The GTIN is not aligned with the associated GCP, or
- The Responder has not licensed the associated GCP, or
- The GTIN is not aligned with the Responder's Labeler Code, or
- The Responder has not registered the Labeler Code.

- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source

All Look-Up Directories only contain records where:

- The GTIN is aligned with the associated GCP, and
- The Responder has licensed the associated GCP, and
- The GTIN is aligned with the Responder's Labeler Code, and
- The Responder has registered the Labeler Code.

- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source

Look-Up Directories may contain records where:

- The GTIN is not aligned with the associated GCP, or
- The Responder has not licensed the associated GCP, or
- The GTIN is not aligned with the Responder's Labeler Code, or
- The Responder has not registered the Labeler Code.

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ49 - GTIN Ownership Transfer

The VRS shall permit transfer of ownership of a GTIN between responders.

### Additional Information

In the event of mergers & acquisitions; product divestitures. This may need to be managed by Labeler Code or GCP

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-120

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - The solution Must be able to process GTIN ownership changes and successfully synchronize the changes with subscription solutions.

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☒ VRS Lookup Directory – Subscribing
  - The solution Must be able to process GTIN ownership changes.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Solution Must be able to process GTIN ownership changes, which must be successfully synchronized with subscription solutions.
    - o Must be able to add an end expiration date and next record owner to the existing GTIN record.
    - o Must be able to add a new GTIN record for the new owner.
- ☒ VRS Lookup Directory – Subscribing
  - Solution Must be able to process GTIN ownership changes, which must be successfully synchronized with subscription solutions.
    - o Changes must be processed to the original GTIN record.
    - o Must process a new GTIN record for the new owner.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Pass:** The solution processes (allows ownership changes to the existing GTIN record and accepts or adds the GTIN record for the new owner).
  - **Fail:** The solution cannot process (allows ownership changes to the existing GTIN record and, or fails to either accept or add the GTIN record for the new owner).
- ☒ VRS Lookup Directory – Subscribing
  - **Pass:** The solution processes (allows ownership changes to the existing GTIN record and accepts or adds the GTIN record for the new owner).
  - **Fail:** The solution cannot process (allows ownership changes to the existing GTIN record and, or fails to either accept or add the GTIN record for the new owner).
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - The solution processes the ownership change and makes the changes available for synchronization to subscribing solutions.
- ☒ VRS Lookup Directory – Subscribing
  - The solution processes the ownership changes and routes new requests (within the expiration date range) to the new owner's Authoritative Source solution.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - The solution routes verification requests to the wrong VRS solution.
- ☒ VRS Lookup Directory – Subscribing

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- Verification requests are routed to the wrong VRS solution.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*



# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ50 - GTIN Owner Permission

The VRS shall obtain approval from the original GTIN owner before transferring ownership of a GTIN or granting permission for a second, concurrent Responder.

### Additional Information

Systemic approval.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-130

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - The Responder Must have modified a GTIN record with an end exp date before accepting a new GTIN Record for the same GTIN with a new record owner.
  - The solution Must alert the owner of a GTIN record of ownership changes and receive

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

permission from that owner before applying those changes.

- ☒ VRS Lookup Directory – Subscribing
  - The solution Must have received a GTIN record with an end exp date before accepting a GTIN Record for the same GTIN with a new record owner.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - Only one GTIN owner is allowed for a given Start Exp Date, End Exp Date range.
  - The Solution Must process the ownership change from the current owner before processing the ownership change from the new owner.
- ☒ VRS Lookup Directory – Subscribing
  - Only one GTIN owner is allowed for a given Start Exp Date, End Exp Date range.
  - The Solution Must process the ownership change from the current owner before processing the ownership change from the new owner.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Pass:** The Solution processes the ownership change from the current owner before processing the ownership change from the new owner.
  - **Fail:** The Solution processes the ownership change from the new owner before processing the ownership change from the original owner.
- ☒ VRS Lookup Directory – Subscribing
  - **Pass:** The Solution processes the ownership change from the current owner before processing the ownership change from the new owner.
  - **Fail:** The Solution processes the ownership change from the new owner before processing the ownership change from the original owner.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - For a given GTIN and Start Exp Date – End Exp Date range, only one Responder record is in the Look-Up directory.
  - Verifications for a GTIN and Expiration Date are routed to the proper Responder.
- ☒ VRS Lookup Directory – Subscribing
  - For a given GTIN and Start Exp Date – End Exp Date range, only one Responder record is in the Look-Up directory.
  - Verifications for a GTIN and Expiration Date are routed to the proper Responder.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - For a given GTIN and Start Exp Date – End Exp Date range, multiple Responder records are in the Look-Up directory.

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- Verifications may be routed to the wrong Responder solution.
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ51 - Responder Selection Criteria for Matches

The Responder's PI repository shall use the four elements of the product identifier (GTIN, Serial Number, Lot Number & Expiration Date) as the selection criteria to determine if a matching record exists.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-140

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☒ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - PI Verification Response must use all PI attributes
    - o GTIN
    - o Serial Number
    - o Lot Number
    - o Expiration Date

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- **Solution Must return an error if the PI Verification Request is missing PI attributes.**

- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Solution returns an error if the PI Verification Request is missing any PI attribute.**
  - **Solution bases the verification on the four PI attributes.**
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Pass:**
    - o **Solution responds with an error if the request is missing any PI attributes.**

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- o Solution processes request using the full four PI attributes.
- **Fail:**
  - o Solution processes request using a subset of the full four PI attributes.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Only verifications, including the four PI attributes, are processed.
  - Records that match the four PI attributes are used for verification.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - System provides verifications based on a subset of the four PI attributes.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ52 - Expiration Date

The Responder's PI repository may use the month and year portion of the expiration date only when determining if the expiration date data element matches the product being verified.

### Additional Information

This is to address false negatives when the encoded data may not contain day of the month.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-150

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☒ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☒ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Solution may use the month and year portion of the expiration date when matching records against the verification request.
- ☐ VRS Lookup Directory – Authoritative Source



# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - If the verification request includes an expiration date with “00” for the day, the solution may use the month and year portions of the expiration date to determine a match.
  - If the expiration date for a GTIN, Lot Number, and Serial Number does not contain a value for the “day” component, the month and year components may be used to determine the match.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a “pass” or “fail” for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Pass:** The solution provides verification for a record that matches the request's GTIN, Lot Number, Serial Number, Expiration Year, and Expiration Month.

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- **Fail:** No failure as this requirement is a “May”.

- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Verifications are given for records that do not have a value for the “day” portion of the expiration date.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The requirement is optional
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ53 - PI Repository Accessibility

The Responder's PI repository shall be accessible by any qualified VRS to submit verification requests.

### Additional Information

The VRS Governance body will establish guidelines to qualify VRS providers

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

ENB-160

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☒ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☒ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The solution is accessible for processing verification requests.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Solution responds to a verification request or connectivity request.**
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Pass:** The Solution responds to verifications or connectivity tests.
  - **Fail:** The Solution fails to respond to a verification or connectivity test.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The Solution responds to verifications or connectivity tests.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The Solution fails to respond to a verification or connectivity test.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ54 - Response Return Performance

The VRS shall return responses to the Requestor in less than one second for requests containing a single product identifier.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

OTH-010

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☒ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Response is provided in under one second.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 4. Prerequisites:

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Response time is measured.**
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Pass:** Response is received in under one second.
  - **Fail:** Response is received in over one second or not received at all.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Response is received in under one second.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Response is received in over one second or not received at all.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None



# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ55 - System Availability and Maintenance

The VRS shall follow the system availability and maintenance standards as prescribed by the governing body.

### Additional Information

The VRS Governance body will prescribe these standards.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

OTH-020

### Acceptance Criteria

**Note: Have the system availability and maintenance standards been developed and published?**

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☒ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
  - **Pass:** .
  - **Fail:** .
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
  - **Pass:** .
  - **Fail:** .
- ☐ VRS Lookup Directory – Authoritative Source
  - **Pass:** .
  - **Fail:** .

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ VRS Lookup Directory – Subscribing
  - **Pass:** .
  - **Fail:** .
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ56 - Secure Delivery of Requests and Responses

The VRS shall ensure the secure delivery of all requests and responses.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

OTH-030

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☒ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - Solution complies with “VRS Current Security Approach”.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Solution complies with “VRS Current Security Approach”.
- ☒ VRS Lookup Directory – Authoritative Source
  - Solution complies with “VRS Current Security Approach”.
- ☒ VRS Lookup Directory – Subscribing

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- Solution complies with “VRS Current Security Approach”.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - Solution complies with “VRS Current Security Approach”.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Solution complies with “VRS Current Security Approach”.
- ☒ VRS Lookup Directory – Authoritative Source
  - Solution complies with “VRS Current Security Approach”.
- ☒ VRS Lookup Directory – Subscribing
  - Solution complies with “VRS Current Security Approach”.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 6. Pass/Fail Criteria:

*Clearly define what constitutes a “pass” or “fail” for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Pass:** The solution complies with “VRS Current Security Approach”.
  - **Fail:** The solution fails to comply with “VRS Current Security Approach.”
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- **Pass:** The solution complies with “VRS Current Security Approach”.
- **Fail:** The solution fails to comply with “VRS Current Security Approach.”
- ☒ VRS Lookup Directory – Authoritative Source
  - **Pass:** The solution complies with “VRS Current Security Approach”.
  - **Fail:** The solution fails to comply with “VRS Current Security Approach.”
- ☒ VRS Lookup Directory – Subscribing
  - **Pass:** The solution complies with “VRS Current Security Approach”.
  - **Fail:** The solution fails to comply with “VRS Current Security Approach.”
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The solution maintains security within the expected criteria.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The solution maintains security within the expected criteria.
- ☒ VRS Lookup Directory – Authoritative Source
  - The solution maintains security within the expected criteria.
- ☒ VRS Lookup Directory – Subscribing
  - The solution maintains security within the expected criteria.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - The solution may be susceptible to hacks or data leakage.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - The solution maintains security within the expected criteria.
- ☒ VRS Lookup Directory – Authoritative Source
  - The solution maintains security within the expected criteria.
- ☒ VRS Lookup Directory – Subscribing
  - The solution maintains security within the expected criteria.
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ57 - Resolution of Connectivity Issues

The VRS shall provide a service to ensure any connectivity or LD issues are resolved with the Responders.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

OTH-040

### Acceptance Criteria

#### *Is this the VRS Taskforce?*

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☒ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification



# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
  - **Pass:** .
  - **Fail:** .
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ58 - Issue Resolution Services

The VRS shall provide issue resolution services in case of connectivity issues with Responders' repositories.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

OTH-050

### Acceptance Criteria

#### *Is this the VRS Taskforce?*

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☒ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
  - **Pass:** .
  - **Fail:** .
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ59 - Access to Transactions

The VRS shall ensure that only Requestors and Responders can view/access their own request and response transactions.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

OTH-060

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☒ PI Request
- ☒ PI Response
- ☐ Lookup Directory
- ☐ Exceptions
- ☒ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☒ PI Verification Requesting Solution
  - Only the Requester Shall be able to review their requests and responses received.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - Only the Responder Shall be able to review requests they've received and responses they've provided.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - A party other than the Requester attempts to access the Requester's requests and responses they've received.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - A party other than the Responder attempts to access the requests they've received and the responses they have sent.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - **Pass:** Access to the Requester's requests and responses are inaccessible to other parties.
  - **Fail:** Access to the Requester's requests and responses are accessible to other parties.
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - **Pass:** Access to the Responder's requests received, and responses are inaccessible to other parties.
  - **Fail:** Access to the Requester's requests received, and responses are accessible by other parties.
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - [Access to the Requester's requests and responses are inaccessible to other parties.](#)
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - [Access to the Responder's requests received, and responses are inaccessible to other parties.](#)
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☒ PI Verification Requesting Solution
  - [Access to the Requester's requests and responses are accessible to other parties.](#)
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☒ PI Verification Responding Solution
  - [Access to the Requester's requests received, and responses are accessible by other parties.](#)
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

[None](#)



# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ60 - Lookup Directory Change Log

The VRS shall log all changes to its LD for audit trail purposes.

### Source Document

HDA Verification Router Service Business Requirements Document

### Source ID

OTH-070

### Acceptance Criteria

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☒ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☐ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - The solution maintains an audit log of all changes to the Look-Up Directory.
- ☒ VRS Lookup Directory – Subscribing
  - The solution maintains an audit log of all changes to the Look-Up Directory.
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

## PI Verification Requirements and Acceptance Criteria

### 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - The solution maintains an audit log of all changes to the Look-Up Directory.
- ☒ VRS Lookup Directory – Subscribing
  - The solution maintains an audit log of all changes to the Look-Up Directory.
- ☐ Trade Partner performing Direct-to-Replicate Verification

### 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - **Pass:** The solution maintains an audit log of all changes to the Look-Up Directory.
  - **Fail:** The solution fails to maintain an audit log of all changes to the Look-Up Directory.
- ☒ VRS Lookup Directory – Subscribing
  - **Pass:** The solution maintains an audit log of all changes to the Look-Up Directory.
  - **Fail:** The solution fails to maintain an audit log of all changes to the Look-Up Directory.

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
  - The solution can determine how records have been maintained.
- ☐ VRS Lookup Directory – Subscribing
  - The solution can determine how records have been maintained.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
  - The solution cannot determine how records have been maintained.
- ☐ VRS Lookup Directory – Subscribing
  - The solution cannot determine how records have been maintained.
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

None

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## REQ61 - Lookup Directory Responder Authentication

The VRS shall provide appropriate security authentication mechanisms for Responder's to post data to the LD.

### Source ID

OTH-080

### Acceptance Criteria

***Need help with this one!***

#### 1. Conforming Parties:

*Define the parties in the eco-system that must conform to the Acceptance Criteria.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☒ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

#### 2. Category:

- ☐ Connectivity
- ☐ PI Request
- ☐ PI Response
- ☒ Lookup Directory
- ☐ Exceptions
- ☒ Authentication & Authorization
- ☐ Verification against Replicate Data

#### 3. Acceptance Criterion:

*Define the specific conditions that must be met for the requirement to be successfully fulfilled.*

- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

## 4. Prerequisites:

*Specify any conditions that need to be met before the interaction can proceed.*

- ☐ None
- ☐ PI Verification Requester (Trade Partner)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 5. Testable Condition:

*Describe how the acceptance criterion can be tested objectively.*

*Specify the steps, procedures, or tools used for testing.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 6. Pass/Fail Criteria:

*Clearly define what constitutes a "pass" or "fail" for the acceptance criterion.*

*Include any thresholds, tolerances, or standards that must be met.*

- ☐ PI Verification Requester (Trade Partner, Authority)
  - **Pass:** .
  - **Fail:** .
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 7. Expected Successful Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is met.*

- ☐ PI Verification Requester (Trade Partner, Authority)

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria

- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 8. Expected Failure Outcome:

*Clearly state the expected result or behavior when the system interaction requirement is unmet.*

- ☐ PI Verification Requester (Trade Partner, Authority)
- ☐ PI Verification Requesting Solution
- ☐ PI Verification Responder (Manufacturer, Repackager)
- ☐ PI Verification Responding Solution
- ☐ VRS Lookup Directory – Authoritative Source
- ☐ VRS Lookup Directory – Subscribing
- ☐ Trade Partner performing Direct-to-Replicate Verification

## 9. Considerations:

*Clearly, state information that may be helpful for proper implementation or operation.*

*None*

# HDA VRS Business Requirements

PI Verification Requirements and Acceptance Criteria