

# Case Study: Testing Implementing GDST Standard in Live Environment



GLOBAL DIALOGUE  
on Seafood Traceability

Enabling the conveyance of traceability data on Wild Caught Blue Shrimp using Global Standards 1 (GS1)'s Electronic Product Code Information Services (EPCIS) XML schema.



## Use Case Tested

This pilot took an existing digitized traceability supply chain and tested the ability to apply the standard so that EPCIS XML pedigree files may be produced as to be compliant with the GDST standard. Envisible is an early adopter of the GDST standards. The supply chain tested also had a fair-trade label.

## Challenges

In working with Envisible, the GDST evaluated their traceability practices and current projects for implementing the live collection of data. Because Envisible was already collecting all the KDEs associated with the Basic Universal List.

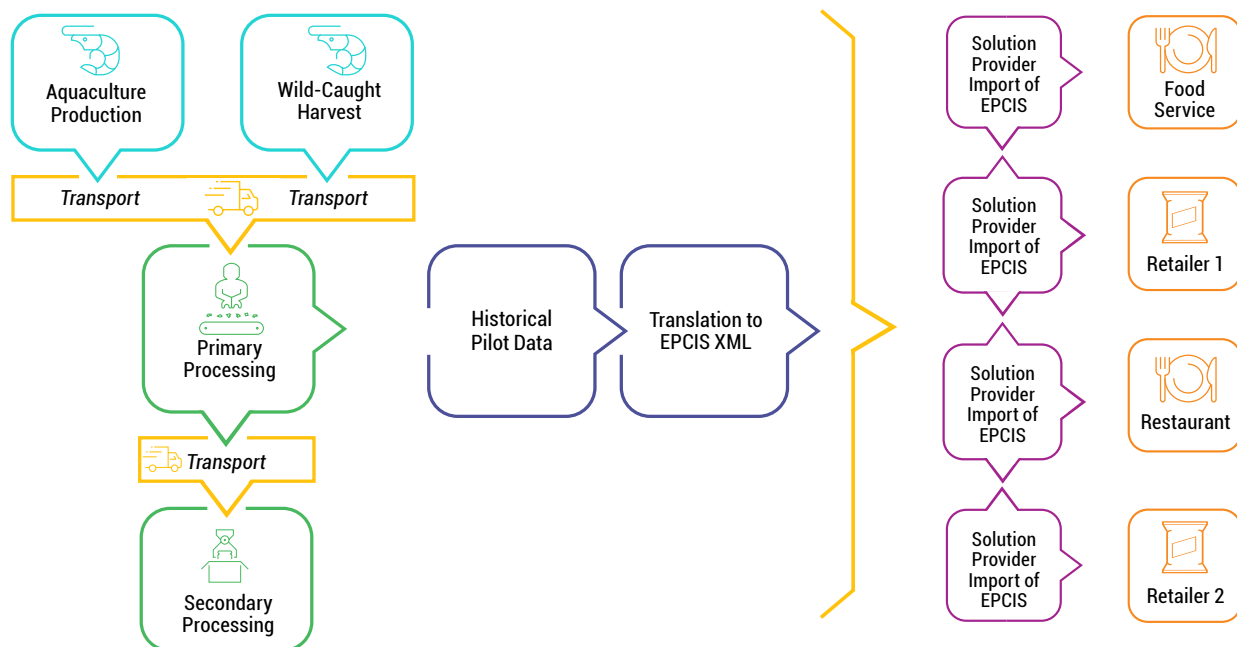
## Next Steps

Envisible will be rolling out the GDST standards across several commodities including scallops, yellowfin tuna, flounder, and hake. Envisible will also proactively be encouraging more of its trading partners to join the dialogue.

## Methodology

This pilot tested interoperability in a wild-caught shrimp supply chain. The Global Dialogue on Seafood Traceability (GDST) co-conveners Institute of Food Technologists' Global Food Traceability Center and the World Wildlife Fund for Nature worked with Envisible to understand how data is captured and batch/lots identified in the WholeChain platform. Then, the GDST secretariat worked with Envisible to ensure their internal templates would output data to GS1's EPCIS XML schema for interoperability.

The advantages of EPCIS are that it is designed to be used to represent visibility data within the supply chain and is well-suited for housing traceability data through its Critical Tracking Events (CTEs). Many supply chain partners, especially processors, distributors, and retailers, used GS1 standards of identification and data sharing, including EPCIS. The file was developed through the collection of historical traceability data, translation to EPCIS, and testing with retail partners and their respective solution providers.



**GDST**

Data Collection of Supply Chain KDEs/CTEs  
(Simplified Example Shown)

Data Conversion

Interoperability Testing  
Downstream from Processing

## Critical Tracking Events



## Supply Chain



## Catch Method

Trawl

## Commodity

Wild Caught Blue Shrimp (*Litopenaeus stylirostris*)

## Geographic Region

Catch in the Gulf of California in Coastal Sinaloa (FAO Zone 77); Landing and Processing in Mexico, Iceland; Export from Mexico; Import in Los Angeles; Distribute to Portland Oregon

## Participants



**Envisible** is a technology focused seafood company which uses its platform WholeChain to ensure end-to-end traceability of its product to ensure sustainability of food production practices. The company has a focus on working with governments, non-profits, and some of the world's most respected brands to design and deploy solutions that add visibility to critical issues in order to drive change and unlock value.

[Envisible.co](http://Envisible.co)



**The Global Dialogue on Seafood Traceability (GDST)** (also referred to as the Dialogue) is an international, business-to-business platform established to advance a unified framework for interoperable seafood traceability practices. The Dialogue brings together a broad spectrum of seafood industry stakeholders from across different parts of the supply chain, as well as relevant civil society experts from diverse regions.

The Dialogue is catalyzing the development of interoperable practices that will:

- Improve the reliability of seafood information
- Reduce the cost of seafood traceability
- Contribute to supply chain risk reduction
- Contribute to securing the long-term social and environmental sustainability of the sector.

[traceability-dialogue.org](http://traceability-dialogue.org)

## Get involved

**Is your company involved commercially in the seafood supply chain?**

**Would you like to participate in the Dialogue?**

Please fill out our application form or contact us:

**Thomas Burke [tburke@ift.org](mailto:tburke@ift.org) | Frank Terzoli [frank.terzoli@wwfus.org](mailto:frank.terzoli@wwfus.org)**

Applying is understood as an expression of interest in active participation, but does not create any commitments. Registered participants will receive invitations to on-line and in-person meetings of Dialogue working groups, and will be kept fully informed of the Dialogue process. Registration does not commit any participating organization or individual to attend meetings or to endorse the final Dialogue results.