



## TRVST - Combating Falsified Medicines

Solidsoft Reply is the global leader in medicines verification technology. Falsified medicines may cause harm to patients and fail to treat diseases effectively. They contribute to antimicrobial resistance and drug-resistant infections. They lead to a loss of confidence in medicines, healthcare

providers and health systems. Falsification accounts for losses of around US\$ 200 billion globally and US\$ 30 billion in low and middle income countries (LMICs) where the risk of diversion is higher due to limited governance structures, tools, and technical capacity.

### At a glance



**Customer:** UNICEF

**Website:** <https://www.unicef.org>

**Customer size:** Corporate (10,000+ employees)

**Country:** United Kingdom

**Industry:** Nonprofits

**Products and services:** Microsoft Azure Cosmos DB, Microsoft Azure SQL Database



**Reply**

<https://www.reply.com/solidsoft-reply/en/> | [d.eccles@reply.eu](mailto:d.eccles@reply.eu) | +442077306000

# Reply, UNICEF, and TRVST - Combating Falsified Medicines

## Customer challenges

Counterfeit medicines are estimated to have caused up to 169,000 deaths of children under 5 suffering from pneumonia and up to 116,000 deaths from falsified medicines to treat malaria.

As the distribution of COVID-19 vaccines ramped up worldwide, so did the production of falsified and sub-standard vaccines and related supplies. Before the pandemic was declared, one in 10 medical products in low- and middle-income countries were reported as being substandard or falsified, potentially causing harm to patients and failing to treat the diseases for which they were intended.

## Partner solutions

The Traceability and Verification System (TRVST) from Solidsoft Reply is a new collaboratively designed solution that allows countries to verify the authenticity of health products and track and trace them through their supply chain. TRVST relies on a global repository that stores health product information, such as Global Trade Item, serial and batch numbers, as well as production and expiry dates. This data is fed into TRVST by medical product manufacturers. The system allows users, such as health care workers, regulatory authorities and customs agents, to use a phone application to scan medical product barcodes and verify their authenticity in real time.

## Customer benefits

The quality of pharmaceutical products are now guaranteed via implementation of track and trace, using GS1 standards and other detection systems. The TRVST is an important addition to the health supply chain and health information system investments to improve efficiency in sharing data across the chain, strengthen data quality, extend data visibility, and reduce costs of data capture and transformation. Any verification failure or suspect activities will trigger an alert which will be sent to respective manufacturers and regulatory authorities.

- ✓ In July 2022, the TRVST was launched in Nigeria and Rwanda marking a milestone in patient safety against counterfeit and substandard medicines.
- ✓ TRVST is being developed under the Verification and Traceability Initiative (VTI), a multi-stakeholder partnership composed of UNICEF, Gavi, The Bill & Melinda Gates Foundation, the Global Fund, USAID, Vital Wave, and the World Bank.
- ✓ TRVST is now expected to scale up and expand to routine vaccines and other health products to treat HIV, tuberculosis, reproductive health supplies, anti-malarial items and other essential medicines.



## Reply

<https://www.reply.com/solidsoft-reply/en/> | [d.eccles@reply.eu](mailto:d.eccles@reply.eu) | +442077306000