



**HONEYWELL
FORGE**

TRACK & TRACE

Achieve regulatory compliance,
mitigate risk of counterfeit product
and improve end-to-end supply chain
visibility with product traceability



A NEXT GENERATION TRACK & TRACE PLATFORM FOR MANUFACTURING, DISTRIBUTION & RETAIL

3 MAIN DRIVERS THAT OUR COMPREHENSIVE TRACK & TRACE SUITES TACKLES:



Regulatory Compliance

Stricter regulation increases the need for new generation serialization, automation and managing large data volumes.



Supply Chain & Product Visibility

Eliminate blind spots in your supply chain process. Tracking meat packages down to a single unit protects your brand and delivers return on investment.



Consumer Interaction

Drive brand loyalty and sales with big data intelligence when connecting products to consumers.



Mitigate risk of counterfeit product

Improve safety by preventing illegal meat from entering the supply chain



OUR STRENGTHS

- Mobile Platform: Globally deployable cloud-based solution proven across 100+ blue chip companies
- Simple integration with back-end systems
- Integrates with your existing ERP, MES and production line management systems
- Cloud Based: Cloud-first, mobile-first solution that supports remote work to be performed by deskless workers in manufacturing and distribution
- Highly configurable: Based on international standards (EPCIS, GS1, etc.) and extensible to meet business specific requirements
- Device agnostic solution that can maximize use of your current mobile infrastructure investments
- Reliable and Scalable Database that can handle high data traffic and storage volumes
- Backed by Honeywell with extensive support and deployment capabilities
- Experienced team with real-world experience of implementing T&T solutions
- Access to hardware and implementation capabilities
- Provides unmatched security in a proven multi-tenant cloud environment

CHOOSE YOUR IDEAL TRACK & TRACE SETUP FROM OUR MANY MODULES



EPCIS Track & Trace Repository Honeywell Cloud

HONEYWELL CLOUD—TECHNICAL FOUNDATIONS



The most scalable T&T Cloud

- Event storage and processing, including full hierarchy management
- Operates as multi-tenant/private cloud across countries and companies
- EPCIS repository and capture interface



Mobile App

- Covers all relevant goods movements and event types
- Native app
- Available on iOS and Android
- Runs on smartphones and industrial devices



The fastest data capturing engine

- 40 x faster than smartphone cameras
- Use smartphones or industrial handhelds to scan barcodes and DotCodes



Cloud Portal

- Easy-to-use interface
- Management of regulatory requirements
- Customizable for enhanced reporting and analytics

SECURITY CONCEPT



End-to-End Encryption

Data is encrypted and stored in the source system with a symmetric key. The encrypted business information can be then only decrypted by using the corresponding key (e.g. on a mobile device).



Physical Security of Data Centers

The servers are located in secured computing centers, with the latest standards in physical security and protection, fire protection and failover concepts. The centers have the following security certifications:

- Level Tier 3 (TÜV Saarland)
- ISO 27001
- Eco Datacenter Star Audit Level 4



Secure Back-end Integration

The authentication of a customer's back-end system at the cloud can be achieved through one of the following two security levels:

- Combination of System ID/Secret
- Initialization of an X509 certificate out of the back-end system



Attack Detection & Cloud Security

The cloud implements tools and routines, which automatically block back-end and client systems from sending any data requests, as soon as they identify attacks or malware.



User Authentication & Authorizations

User authorizations and rights can be applied at any point within the business scenario - from securing access to a specific function up to the entire scenario.

REGULATORY COMPLIANCE

Stricter regulation increases the need for new generation serialization, automation and managing large data volumes

Next generation serialization and track & trace platform:

- Robust modules ensure end-to-end compliance with pharma-based regulatory requirement
- EPCIS compliant platform with reduced time to compliance
- Leveraging 15 years of detailed experience
- Designed to circumvent performance limitations of traditional traceability systems
- Much higher performance and scalability

Business Challenge:

- Stricter government regulations enforce product traceability to item level within the complete supply chain with tight timelines to compliance.

HONEYWELL FORGE TRACK & TRACE

Identification

- Unique codes per pack (item-level)
- ID codes required for importers, economic operators (EOID, FID) and operators of first retail

Tracking

- Products movements between facilities
- Hierarchies to be maintained
- Transloading events

Reporting

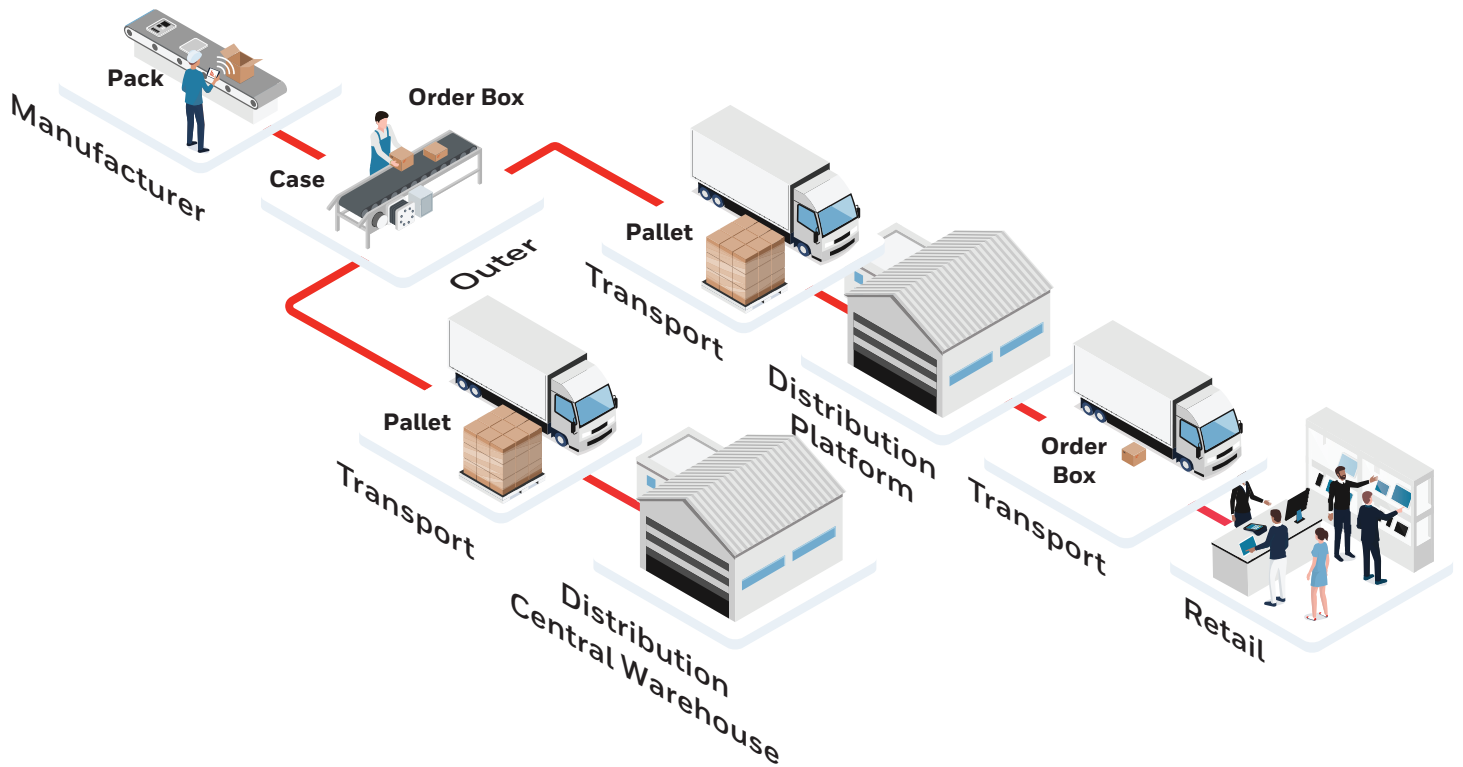
- Report events to router or primary repository
- Dispatch and transloading events reporting 24 hours prior to the event

Repository

- One per manufacturer/importer

Operators

- Tracking every single movement in the supply chain from manufacturer to retail



CUSTOMER SUCCESS STORIES



Service: Pharma

Track & Trace for warehouses and picking tablets, including field inspection



Service: Explosives

Item-level Track & Trace for regulatory compliance including warehouse integration and stock management



Service: Machinery Spare Parts

Serialization, product verification, internal Track & Trace system, supplier integration



Service: Spare Parts in all industries

Serialization, product authentication and value-added services



Service: Tobacco

Item-level Track & Trace for regulatory compliance including EPCIS repository and various mobile scanning solutions

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FUTURE
IS
WHAT
WE
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Honeywell