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Oracle Intelligent Track and Trace

Oracle Intelligent Track and Trace is a prebuilt SaaS application that seamlessly connects with Oracle SCM and 3rd party applications to monitor transactions and movement of assets or goods across systems and trading partners. Data captured from systems and partners is validated, normalized and correlated resulting in a secure, trusted, digital trail that provides end-to-end visibility into multi-enterprise supply chain networks.

The challenge

The majority of supply chain data, for most global enterprises, originates or exists outside their four walls. Quick access to this data in a standard, normalized view is challenging, as it resides within their suppliers, contract manufacturers, distribution centers, and service provider systems. As orders flow through their supply chain, critical supply chain data and milestones are often captured late, not consumable in a standard format, or not visible at all. As a result, it's increasingly difficult for enterprises to manage their supply chain in an optimal and resilient manner.

About this app

Oracle Intelligent Track and Trace addresses these challenges with a SaaS solution that delivers value faster, while affording end-to-end supply chain visibility. By capturing and recording transactions from the respective partner enterprise applications, Oracle's Intelligent Track and Trace becomes the elevated system that bridges the gap across internal and external systems for real time tracking, tracing and exception management for any product or transaction of value. Enterprises can transform their businesses with new and fast-changing innovations, accelerated business processes and reduced cost and risk.

- This SaaS application is enterprise-ready and leverages relevant components of blockchain and other technologies. It can be integrated with a range of enterprise applications such as Supply Chain Management (SCM), Enterprise Resource Planning (ERP), Customer Experience (CX), Internet of Things (IoT) and common SCM products.

- The application ingests transactions from multiple and disparate digital sources (e.g. order, manufacturing, transportation, warehouse, and IoT systems) and normalizes and correlates the transactions to enable tracking and tracing transactions or any item of value throughout its lifecycle.

- Products or assets can be tracked and traced, considering serial numbers, lot numbers, and genealogy.

Benefits

- Multienterprise visibility
- Private network of partners with controlled visibility
- Single view across partners and systems
- SaaS delivery model - faster results at a lower cost
- Connect and correlate related supply transactions
- Prebuilt integrations to Oracle SCM products
- REST API options for 3rd party system integrations
- Faster root cause analysis
- Manage by exception
- Audit Trail of supply chain transactions and milestones

Related Products

- Oracle IoT Intelligent Applications
- Oracle Transportation Management
- Oracle Global Transportation Management
- Oracle Warehouse Management
- Oracle Procurement
- Oracle Order Management
- Oracle Inventory Management
- Oracle Manufacturing
- Oracle Integration Cloud

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- Using distributed ledger technology, a secure audit trail captures all events, milestones and transactions related to the history of the business flows.

- Supply chains can be managed proactively and by exception with custom business rules in the form of smart contracts that are executed and validated at runtime.

- Visibility to participating business partners is facilitated by the Founder (owner), who defines the access permissions, business transaction flows, and document structure.

Founder	**Trading Partners (Endorsing)**	**Trading Partners (Participating)**
Organization responsible for setting up the business network and have full functionality	Major participants of the business network with authority to submit transactions and create custom validation rules in the form of smart contracts	Participants in the business network with authority to submit transactions but cannot create validation rules

Industry expertise and experience

Oracle has decades of industry experience and an extensive partner ecosystem. This Oracle application uses fine-grained access control to provide track-and-trace reporting, insights and analytics based on a trading partner's privileges on a network. Oracle has engaged with a selected number of Oracle supply chain customers as design partners to develop solutions across a variety of industries and defined a number of scenarios to demonstrate how Intelligent Track and Trace can add value to your supply chain.

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- Telecommunications provider tracking returns of equipment, by serial number, from end customers through depots, contract manufacturers and service centers.

- Oil and gas offshore drilling company tracking equipment from provider via shipping to operations, offshore port, and oil rigs.

- Global company monitoring condition of perishable goods to protect products, lots, and batches from damage or spoilage.

- Food and beverage company monitoring production, distribution and recall processes across their supply chain.

- Networking hardware company enabling multitier visibility for discrete manufacturing global supply chain officer.

Addressing complexities

Today's supply chains produce multiple data points from disparate digital sources that need to be validated and retained in an immutable and decentralized way. Leveraging relevant blockchain technology, Oracle's Intelligent Track and Trace application addresses these complexities to help revolutionize current business processes. This approach offers greater transparency and a single source of truth for supply chain participants.

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