

Oracle Intelligent Track and Trace

Oracle Intelligent Track and Trace is a prebuilt application that seamlessly connects with Oracle SaaS and PaaS, and other cloud and on-premises 3rd party applications. This application monitors transactions and movement of assets or goods across trading partners and organizations, creating a digital trail with securely recorded business transactions, to provide end-to-end visibility into multi-enterprise supply chain networks. It allows asset owners to track and trace things of value and monitor the pedigree and condition of products to achieve faster results while operationalizing trust between members of a supply chain.

About this app

Oracle Intelligent Track and Trace is a business ready technology that makes it easy for customers to get faster time to value and faster resolution of business transactions. It affords end-to-end supply chain visibility. By recording non-disputable transactions from the respective partner enterprise applications, trust is established throughout the network. Customers 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 tools and expertise from Oracle Blockchain Platform 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), and Internet of Things (IoT) with pre-established integrations with common SCM products.
- The application ingests transactions from multiple sources (e.g. transportation and warehouse management systems and IoT) and provides a real-time view of recorded business transactions.
- A chronological timeline view shows tracking history with drill-down displays of business documents that are securely committed to the distributed ledger.
- Built-in simulators provide a view of the value realized before systems are implemented. Simulators are also used to help define business networks and their associated transactions.



Benefits

- Multitier Visibility
- Operationalized Trust
- Track and Trace
- Product Tracking by serialization, genealogy, pedigree
- Product Condition Tracking
- Prebuilt with pre-established integrations to SCM products
- Faster results at lower cost
- Industry expertise
- Simulation capability
- Root Cause analysis
- Anti-counterfeiting compliance
- Dispute Resolution

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

- Visibility to participating business partners is facilitated by the Founder (owner), who defines the initial business transaction flows and invites partners to participate. Partners can then edit/modify flows and tailor to their processes and business.
- Founder and Endorsing Trading Partners can add business rules in the form of smart contracts that are executed and validated at runtime.



Founder
Organization responsible for setting up a business network



Trading Partners (Endorsing)
Organizations part of the business network with endorsing privileges and their own copy of the distributed ledger



Trading Partners (Participating)
Organizations that are part of the network submitting transactions but don't have their own distributed ledger

Stakeholders

Line of business heads can realize increased business velocity, innovation and reduced cost and risk. They will also benefit from Oracle's industry expertise and experience. IT managers and enterprise architects will have the support they require for a variety of use cases and hybrid deployments. With less development required, OpEx costs will be lower.

Some key roles for the Oracle Intelligent Track & Trace application include:

- **Founder:** The founder is the owner and facilitator and establishes which partners become part of the network. There is an overall founder admin and also founder accounts for the network. Only a founder can run simulations.
- **Endorsing Partner:** These are trading partners with privileges that allow defining rules for transaction validation and visibility. They also get their own copy of the distributed ledgers.
- **Participating Partner:** This is also a trading partner that can post documents and access the web application in read-only mode.

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.

- Telecommunications provider tracking returns of equipment 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 selling fast-moving consumer goods tracks and traces shipments while monitoring condition of perishable goods to protect items from freezing.
- Food and beverage company tracking and monitoring beer process and manufacturing with issue detection scenario in a supply chain.
- Networking hardware company enabling multitier visibility for discreet manufacturing global supply chain officer.

Why blockchain?

Today's supply chains produce multiple data points often times resulting in thousands of daily transactions that need to be validated and confirmed. Blockchain technology offers greater transparency and single source of truth for participants using supply chain networks. They cut down on operational inefficiencies when using centralized databases and offer greater security and trust due to their decentralized nature and dispute resolution capabilities for transaction. With blockchain, customers can produce higher quality products and facilitate faster shipments.

While big data presents opportunities, it can also be incredibly difficult to manage, especially if that data isn't properly validated and trusted by all parties. The lack of validation can expose organizations to risk, especially if they are trying to track supply chain goods that are regulated by law. Oracle's Intelligent Track and Trace blockchain application addresses these complexities and compliance requirements to help revolutionize current business processes.

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