OpenText Aviator IoT

Revolutionize your IoT strategy

Benefits

- Secure device management to create and govern a digital twin
- Ecosystem integration of digital twin data from operating technology
- Unified messaging enriches and extends digital twin data
- Actionable insights to exploit and benefit from digital twin data

The Internet of Things (IoT) has had a profound impact across all industries. Leveraging advances in telecommunications to add connectivity to every kind of machine can deliver new business models or augment and improve existing ones. What may have started as a line-of-business IoT project now needs to integrate, interact and empower enterprise applications—the challenge is where or how to start?

According to global research firm Statista, the number of Internet of Things (IoT) devices worldwide is forecast to almost double from 15.9 billion in 2023 to more than 32.1 billion IoT devices in 2030[1] and OpenText believes the volume of identities will grow in parallel. For a manufacturer, a connected product means building a better, more valuable product and unlocking new service-based revenue models. A connected asset gives visibility to an owner/operator and can increase operational efficiency and improve services by optimizing the use of the asset. The challenge is the need to deliver trusted information to many mission-critical stakeholders and the enterprise applications they use to make decisions.

The quality of the data from IoT devices begins with the IoT device or endpoint validity. Owners and operators of product ecosystems need to identify, create and manage a network of physical objects that securely connects, communicates and collects data and intelligently disseminates it to create value. The OpenText Internet of Things Platform delivers this identity-centric approach to IoT, standardizing how these IoT devices' (as well as the people and systems) identities are represented and ensuring that the highest level of integrity can be maintained at scale. Common entity definitions allow for consistent identity relationship behavior, versioning and extensibility.

1 Statista, Lionel Sujay Vailshery, "Number of Internet of Things (IoT) connections worldwide from 2022 to 2023, with forecasts from 2024 to 2033". Jun 12, 2024
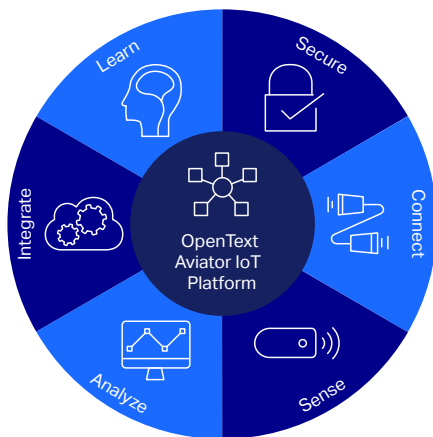
OpenText Aviator IoT Platform capabilities

Providing key capabilities to support the requirements of today's connected digital ecosystems:

Secure: Protects IoT endpoints against external cyber security threats

- Identity-based approach to managing IoT endpoint security
- Dynamic security context and autonomous authentication
- Authorization and management of interaction between entities, for increased security

Connect: Allows devices to be connected via a range of industry standard communication protocols

- IoT Messaging is an internet-scale stream processing engine for sending events and commands across devices, systems and processes with workflow and stream analytics
- Advanced messaging capabilities are key to all IoT ecosystems, especially those in which mission-critical functions are performed
- Unlike other IoT service providers, OpenText enables protocol brokerage and fine-grained traceability of messages

Sense: Supports a range of industry-standard sensors for measuring and delivering operational and contextual data

- Providing a defined status
- Connection agnostic
- Wired/wireless
- SCADA output

Analyze: Uses analytics to uncover meaningful insights from sensor-based information attached to connected devices

- Ingest sensor information into the OpenText AI & Analytics platform to discover
insights and visibility into connected device performance or operation
- Establish event triggers so that sensor information can initiate downstream processes such as inventory replenishment
- Leverage a data lake to archive sensor information for future use and reporting
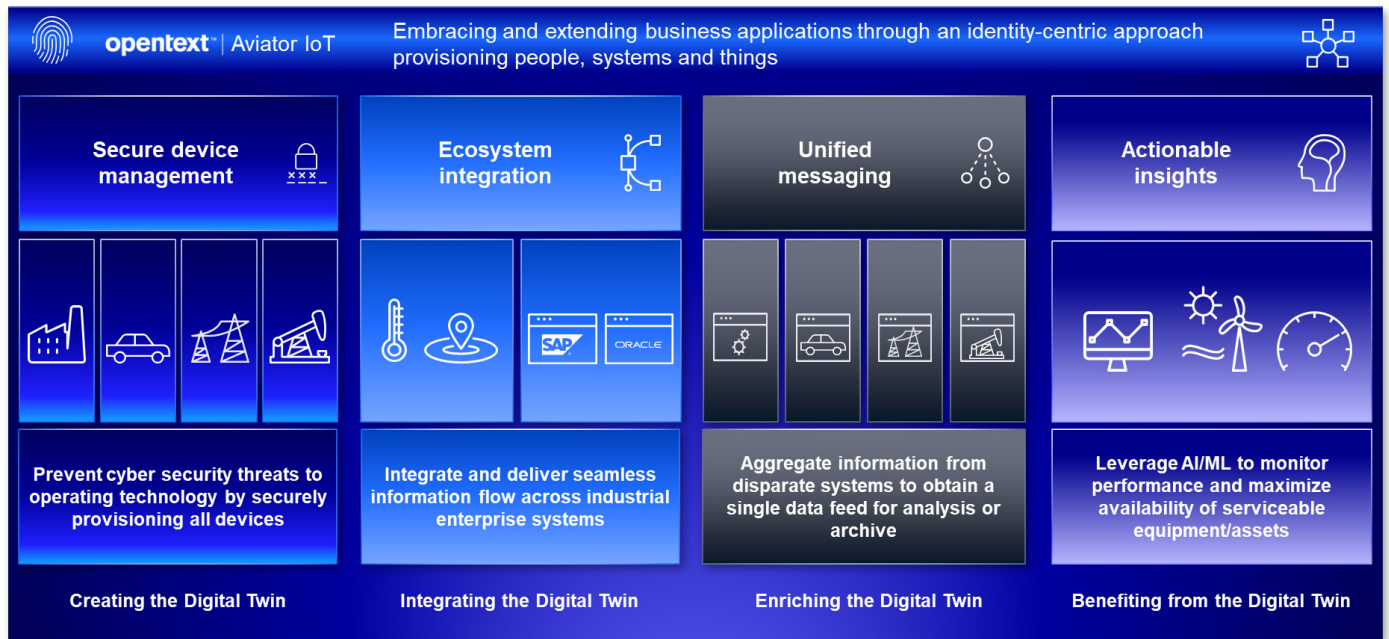
Integrate: Allows sensor-based information to be seamlessly exchanged with key business systems

- Cloud-based Managed Services provides seamless integration between IoT platform and back-end enterprise systems
- Augments enterprise systems with sensor-based information to provide a more holistic view of supply chain operations
- Leverages sensor information across enterprise applications, e.g. ERP, MES and WMS

Learn: Aggregates sensor information and other information sources to take a recommended course of action

- Leverage archived or historical sensor information to analyze for key trends and insights
- Ingest from other information sources, (e.g. weather/news/social feeds) to enable informed decisions

Four IoT solutions enabled by the OpenText Aviator IoT Platform

Solution features	Description
Secure device management	Leverages identity management to establish digital twins of physical objects, making it easier to visualize contextual data no matter where the physical device is located. Provisions and de-provisions secure IoT endpoints and data access to minimize cyber security threats.
Ecosystem integration	Seamlessly exchanges sensor-based information with key business systems, such as ERP, WMS and TMS. Offers comprehensive machine-to-machine or application-to-application integration capabilities.
Unified messaging	Provides any-to-any communications protocol support via a comprehensive messaging broker. Allows companies to perform rapid, secure and flexible integration of structured an unstructured data from MQTT to FTP.
Actionable insights	Transforms and orchestrates IoT data into actionable insights, visually represented in different forms. Combines comprehensive IoT analytics with advanced AI and machine learning capabilities to allow companies to quickly assess operational performance based on historical sensor data.
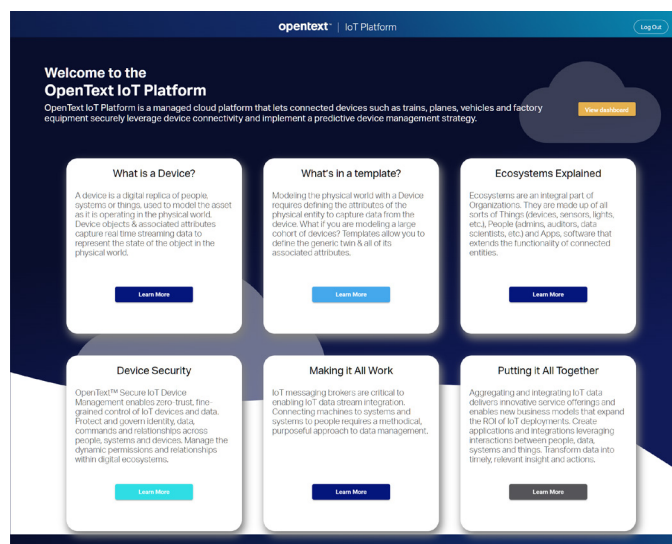
Why choose the OpenText Aviator IoT Platform?

Authenticating an ecosystem of things requires experience and understanding of the complex web of relationships between them. The interaction of people, systems and things requires dynamic control of what each unique thing can do, with whom and when. The OpenText Aviator IoT Platform is massively scalable and delivers secure data integration, exchanging millions of messages per second, between millions of things, in realtime. It allows organizations to design for the future by connecting manufacturers to products, while providing robust security and connectivity.

OpenText IoT Services accelerate secure, scalable connected product solutions, enabling organizations to register and manage physical things and create solutions that connect their people and systems with the integrated world. The OpenText Aviator IoT Platform provides everything an organization needs to monitor the status or condition of products and equipment, create secure interactions and integrations and manage the identity lifecycle of connected things.

The Identity of Things Explained

Identity of Things (IDoT) assigns unique identifiers and metadata to things, devices and objects.

Get the *Identity of Things Explained* guide to learn about the identity problem with IoT and how a strong IDoT foundation identifies and manages IoT connections to solve it.

The Identity of Things (IDoT) extends traditional identity and access management (IAM) for the internet era. It identifies all IoT infrastructure components to ensure secure connectivity and data trust from IoT devices.

The guide introduces IDoT and reveals how to add identity to IoT with chapters on:

- The core capabilities of an identity-driven IoT platform
- The Top 10 tips to consider when deploying identity management in IoT
- Selecting the right provider for IDoT

Get the guide today ›

opentext™