MindAccess
IoT Value Plan

Benefits

- Immediate access to MindSphere

- Quick configuration of MindConnect devices with no development required

- Immediate monitoring of assets

- High security standards

- Access to applications for MindSphere through the MindSphere Store

- Global partner ecosystem ready to drive and support your IoT strategy

Enter MindSphere with MindAccess IoT Value Plan and unleash your digital potential

MindSphere is the leading industrial Internet of Things (IoT) as a service solution that uses advanced analytics and AI to power IoT solutions from the edge to the cloud. With the MindSphere MindAccess IoT Value Plan, users can ingest and visualize immediate real-time data and analytic results in one centralized location with no development required. In addition, MindAccess™ is the user's portal into the MindSphere Store, a marketplace for powerful industrial applications. By leveraging these applications, users gain revolutionary visibility into their product value chain and the confidence to make optimal business decisions.

Solving the IoT access challenge
Customers are incurring additional costs and decreased efficiency with time spent locally monitoring machines on multiple monitoring systems. MindSphere and MindAccess IoT Value Plan streamline your operations by providing a single view of asset data and analytics. By collecting, contextualizing and analyzing historical data into a centralized system, operators can more efficiently and effectively manage assets and facilities. Customers will have meaningful and secure access to their IoT data as the first crucial step on the IoT journey.

High-value, industry-based applications built on MindSphere and accessible via the MindSphere Store deliver measurable results from digital services that are based on best-practice solutions. In addition, companies leverage MindSphere to close the loop through product ideation, realization and utilization to seamlessly integrate operational data throughout the value chain – not only driving operational efficiency, but also comparing simulation and test results with real-world observations.

With streamlined user access to consolidated data from disparate sources, companies can better understand the end-customer experience and focus on product development appropriately. Companies can differentiate themselves in the market by delivering products focused on customer feedback and actual product usage information.

Immediate access to MindSphere
MindAccess IoT Value Plan provides dedicated tenant access to MindSphere to ingest data and use common applications and is available in multiple offerings to suit your unique business requirements. Additional users, storage, agents and connected assets may be added as required. Users can configure users, agents, customers and assets, and may also store data.

Quick configuration of MindConnect devices
With MindAccess IoT Value Plan, users can connect Siemens and non-Siemens devices to MindSphere with no development required using the asset configuration tool. MindConnect® Nano and

MindAccess IoT Value Plan

MindConnect IoT2040 devices can be configured as agents to send device data into a dedicated tenant for storage.
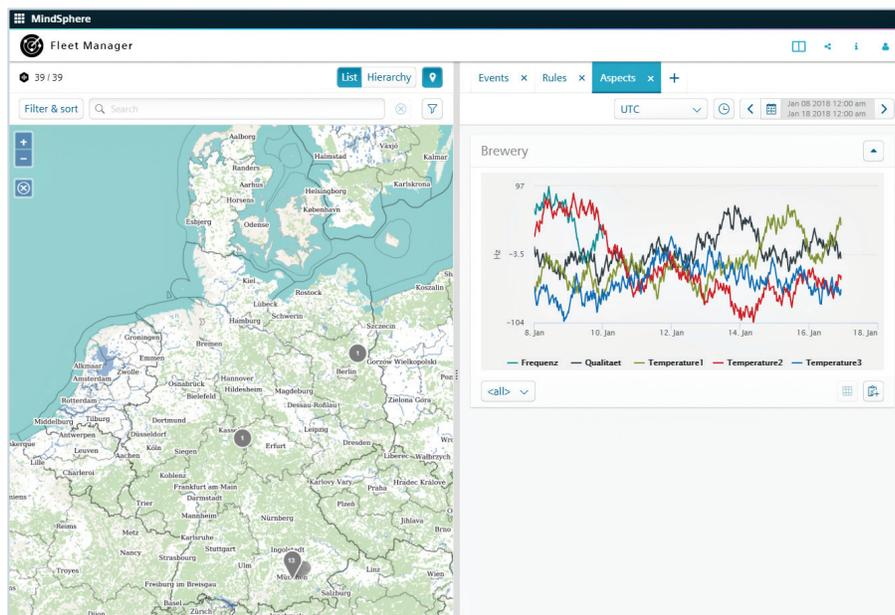
Utilize APIs and connectivity solutions to connect a wide range of devices to MindSphere. MindSphere is part of Xcelerator, a comprehensive and integrated portfolio of software and services from Siemens Digital Industries Software. These powerful tools make it possible to connect devices communicating with varying protocols and begin visualizing data and manage the fleet in one location.

In addition, MindSphere facilitates data integration with existing enterprise systems and databases such as historian databases, enterprise resourcing planning (ERP), manufacturing execution system (MES) and supervisory control and data acquisition (SCADA) systems. By joining data streams from multiple sources into one centralized location, customers will have more insights across the entirety of their operations.

Immediate monitoring of assets
MindAccess IoT Value Plan includes Fleet Manager, which provides an overview of assets configured in MindSphere. Users can quickly search for all assets and focus on relevant issues based on user-defined parameters configured within Fleet Manager. In addition, users can configure rules to automatically monitor machines through rules and create follow-up requests like email notifications upon reaching a predefined state. Integrated into MindSphere Fleet Manager, these requests are displayed to the user in an intuitive way. The Visual Analyzer option further enhances data visualization and offers complex algorithmic functions.

A map view shows the geographic location of connected assets. In the detail view, users see the recorded data shown in different diagrams. Users can also define the time frame for which the data is displayed and drill down deep into their data.

The MindSphere Store and partner ecosystem
MindAccess IoT Value Plan enables access to the MindSphere Store and partner ecosystem. To address the broad scope and high complexity of digital transformation across all industries, MindSphere has established a network of world-class partnerships that enables MindSphere with a robust offering of IoT solutions and services with the flexibility to match the specific requirements of our customers. In addition, partners have numerous opportunities to build and operate their own digital offerings around MindSphere.

Partners can also use the MindSphere Store to gain access to various upgrades, including number of users, tenants, agents, connected assets and rules as well as additional options for dashboarding, workflow creation and rich reporting.

Solving real-world problems with IoT and MindAccess IoT Value Plan
The MindConnect Nano, along with the MindAccess IoT Value Plan, was chosen as the affordable, out-of-the-box connectivity solution for MindSphere by a soft drink producer with a large-scale production environment and broad range of products. The customer required a fast and flexible solution that required no development to accommodate rapid production changeover and provide global access to asset data.

The successful implementation and onboarding of 10 MindConnect Nano boxes enabled 150 motors from different locations to be quickly and securely connected to MindSphere. This allowed the customer to visualize and monitor data across global locations using Fleet Manager, a tool-based evaluation of critical condition events for further inspection and problem fixing at an earlier stage. Ultimately, the customer benefitted in increased asset uptime through accurate asset failure prediction, improvement of the manufacturing process, higher product quality and optimization of service productivity.

MindAccess IoT Value Plan

MindAccess IoT Value Plan – Authorized limits

IoT Value Plan	S	M	L
Users	50	150	500
Subtenants	10	40	80
Asset types	5	20	100
Asset instances	50	500	2000
Rules[1]	10	50	250
Connected agents[2]	10	25	100
Time series data ingest rate[3]	2 KB/s	10 KB/s	100 KB/s
Time series data storage volume	60 GB	300 GB	3 TB
File storage	50 GB	100 GB	500 GB

[1] Active concurrent. Further limits apply as set out in the MindSphere Supplemental Terms.

[2] Each connected Agent leads to one used asset instance.

[3] Data ingest is based on number of assets, number of variables per asset, size per variable, read cycle interval, sending frequency and overhead. Example: The 10 KB/s of an M Plan could be reached by 200 assets with 10 variables, each sending frequency 10s, 20 assets with 100 variables, each sending frequency 10s. Underlying assumptions: 50 bytes per variable including transport layer overhead – data type float as provided by MindConnect Nano, IoT2040 and S7-FB, read cycle equals sending frequency.

MindSphere
MindSphere is the leading industrial IoT as a service solution that uses advanced analytics and AI to power IoT solutions from the edge to the cloud. Built on the Mendix application platform, it empowers users to quickly build personalized IoT applications.

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