

Altair SmartCore™

Build powerful and secure IoT applications



Altair SmartCore is a cloud-native platform, which offers an integrated set of services and features to help you easily connect your things to the digital world. It provides a framework for building powerful industry applications, which optimize efficiency, enable innovative business models, and quickly deliver value. Available as a Platform as a Service (PaaS) or on-premises, Altair SmartCore will help you execute your IoT projects faster in an easy-to-use, reliable, and highly scalable environment.

Feature Highlights



Data Collection

Easily send sensor data and status to Altair SmartCore using multiple protocols (MQTT, REST or custom) and/or communication channels (Sigfox, LoRa, etc.).



Device Management

Utilize Altair SmartCore's auto-provisioning to quickly onboard devices then remotely maintain, update, control, and interact with devices regardless of location.



Application Engine

Write and execute custom code at any complexity level in Altair SmartCore's App Engine to create real time logic for applications.



Project Management

Manage project, device, and user privileges and data visibility with Altair SmartCore's advanced access control features.

STEP 1 Connect Things to the Digital World

- Device agnostic: sensors, gateways, machines and much more. Start prototyping with Arduino, Raspberry Pi, TI, etc. then easily transition into industrial solutions.
- Connect any hardware.
- Choose your things and start your IoT journey.

STEP 3 Manage Devices & Data

MANAGE DEVICES

- Deploy, interact, enable or disable your devices remotely from Altair SmartCore.
- Check status and manage configurations and firmware remotely (OTA updates).
- Extend device properties and manage security.

MANAGE DATA

- Extract data with our REST API.
- Download in batch reports.
- Push it to external IT systems and web services.
- Embed an interactive chart, page or full report into any webpage, blog and software application.

STEP 2 Control your data

SEND YOUR DATA TO ALTAIR SMARTWORKS

- Use HTTP RESTful API, MQTT, SIGFOX, LORA and other custom ways to push and pull XML or JSON data.
- Security: API keys, HMAC checksums and HTTPS
- Any data structure. Simple sensor data, complex multi sensor arrays, custom data streams, etc.
- Data stored in NoSQL Data Base. No need for predefined data models.

STEP 4 Build your App & we run it!

YOUR APP, YOUR RULES

- If-then-else approach with simple expressions.
- Full complex logic with Groovy scripts.
- PUSH and PULL strategies.
- Build your complete control panel through Altair SmartCore's REST API in any your preferred language.
- Integrate your IoT data into external services or integrate with 3rd party things and systems.

RUN IT!

- Scale up the number of devices at your own pace.
- Focus on your project and let us manage the IoT complexity, security and communications.

Why Altair SmartCore



Expertise

Altair SmartCore is an IoT platform with a large customer base that has proven its effectiveness in a wide range of IoT vertical sectors.



Fully Managed Infrastructure

Enjoy peace of mind and let Altair SmartCore manage your IoT infrastructure, both for on-premises and PaaS deployments.



End-to-End Security

Altair SmartCore provides a secure IoT environment for your IoT project by implementing industry-standard security protocols.



Scalability

Altair SmartCore is built on an open architecture designed to scale, it has flexible licensing, and is supported by a growing global partner ecosystem. There's almost no limit to how quickly your project can grow.



Open

Altair SmartCore platform supports many IoT protocols allowing fast data integration and communication between a wide range of connected assets, entities, and systems.