

Dell Boomi & Alleantia for IoT Integration

Streamline how your manufacturing organization integrates IoT data into your enterprise systems to improve business operations and drive digital transformation initiatives.

Many companies are looking to incorporate data from their devices and “things” to gain new visibility into their operations and automate processes. But to make the most of the IoT, organizations need to easily and seamlessly integrate information from smart devices and gateways with existing enterprise applications and systems.

Dell Boomi partner Alleantia provides industry-leading software for communicating with devices and gateways at the edge of Internet of Things networks. Combined with the Boomi integration platform, organizations have a complete system for processing IoT data.

Easily transform your IoT data for use by business applications to create new insights, revenue streams and digital innovations.

Put Your IoT Data to Work

Alleantia, Pisa, Italy, focuses on smart manufacturing, smart product, smart services and Industry 4.0. Its mission is to bring ‘Industrial Things’ online quickly and easily for any manufacturer or industrial operator that wants to make the most of its smart device data.

Its core product implements comprehensive supervision, monitoring and control systems for plants, devices, individual machines and sensors, helping manufacturers, end-users and other businesses collect industrial IoT (IIoT) data from machines, production lines and devices to trigger an automated action or provide decision support for operating technicians and business managers.

Complementing Alleantia’s expertise “at the edge,” the Boomi Atom provides the industry’s only integration runtime engine that can reside at the network edge (in gateways, etc.) to process and filter device data locally before sending it to the enterprise network. This greatly

reduces network loads from big data streams and prepares the data for easy integration with effective key business applications.

At the same time, Boomi provides complete support for configuring integration processes with its true cloud-native, low-code development platform. Using Boomi, organizations can map and merge IoT data into the appropriate business applications, enriching and correlating with other enterprise information to analyze the data and generate insight or streamline workflows.

Together, Boomi and Alleantia make it simple and fast for industrial companies to integrate device data with business applications and processes — putting that data right where it is needed to drive better decisions and streamline operations.

With seamless integration uniting IoT and enterprise systems, manufacturers and other industrial companies can gain a host of benefits.

Avoid Loss of Productivity. Automate the process for monitoring an industrial motor or a key component of a high performance machine, ensuring any maintenance or repairs are addressed before they fail and hurt productivity.

Avoid Loss of Product. By simplifying the monitoring of the machinery in a cold-storage warehouse, organizations can quickly detect any variations in temperature and determine the source of the problem before a failure damages perishable inventory.

Increased Productivity. Instantly incorporate historical device data in a customer service support portal, boosting employee productivity and customer satisfaction by providing greater visibility into order status.

Ensure Compliance. By seamlessly incorporating device data into historical safety reports, manufacturers can provide more thorough and timely operational reports to respond to regulations, insurance requirements or service agreements with customers.

Create New Business Models. By easily harvesting IoT data and integrating it with business applications, organizations can create new revenue opportunities based on the value of that data. An insurance company, for example, could offer variable insurance for industrial drones, based on fly time and geographical location.

Alleantia and Boomi: Pioneering a New Approach to the IoT

The number of smart machines is growing by the day. And many of these machines are already used in various industrial sectors, so the business opportunities are huge — but largely untapped.

Together, Boomi and Alleantia provide a complete portfolio of technologies for harnessing IoT data and putting it to full use in your business.

A common implementation would include these steps:

1. The Alleantia ISC software on the edge gateway manages an enterprise landscape of devices and collects and processes device data.
2. The Boomi integration engine, the Boomi Atom, also runs directly on the same gateway on the edge.
3. Integration processes are quickly created, modified and managed using the Boomi drag-and-drop, low-code, cloud-based development environment.
4. Boomi consumes device data gathered by Alleantia ISC, transforming it and integrating it with any other device and/or business data
5. Boomi delivers this data to wherever the business needs it — whether that is an on-premise data store or application, a cloud application, or even another gateway.
6. The business can then use Boomi to integrate device data with business applications, such as WMS, MES, ERP or CRM, and design operational processes supported by these enriched data sets.”

This approach takes full advantage of the gateway’s computing power, while reducing local area network traffic. With a Boomi Atom running on the gateway, organizations can easily use machine data just as they would any other data source.

For example, by combining enterprise business data with IoT machine data, manufacturers can build dashboards to monitor and optimize machine performance and lower operating costs. Even marginal gains from more detailed insights can mean huge cost saving for manufacturers running thousands of processes and producing millions of items.

Why Boomi?

Enterprise Connectivity

- Dramatically cut the time and cost of integration
- Implement integration projects in days or weeks, not months
- Gain real-time insights across the business
- Reorient core processes around the customer
- Improve data quality and consistency
- Flexibly scale and adapt to business needs

Pure Cloud

- No hardware to install or maintain
- Automatic upgrades
- Predictable usage-based pricing
- Single instance, multi-tenant architecture
- Accessible from any browser

Robust Integration

- Proven connectivity to 1,000+ unique endpoints, including 200+ applications
- Drag-and-drop integration development, no coding required
- Any-to-any integration across cloud and on-premise systems
- Intuitive, centralized integration management
- Community access to connectors, widgets and process maps
- Extensive crowd-sourced knowledge and guidance

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