

# Fast Track IoT Smart Building, Industrial, and City Solutions with Altix and Intel

The Internet of Things (IoT) offers enormous potential to dynamically adjust building, industrial, and city spaces to meet the needs of their occupants—increasing comfort while achieving significant energy and cost savings. But with multiple communication protocols, device platforms, and cloud platforms within an evolving technology landscape—and a need for end-to-end security—developing for IoT can be complex and time-consuming.

Altix Innovations helps you fast track IoT smart building, smart industrial, and smart city solution development and deployment. Our unique combination of engineering services and standards-based IoT frameworks on Intel® hardware platforms reduce the complexity and technology risks of IoT development, so you can focus on creating the best solution for your end users.



*"Altix helped optimize the performance of air cooled condenser (ACC) sections at our power plant for an 18% reduction in power consumed in ACC sections."*

**Vice President, Large Integrated Steel Plant**

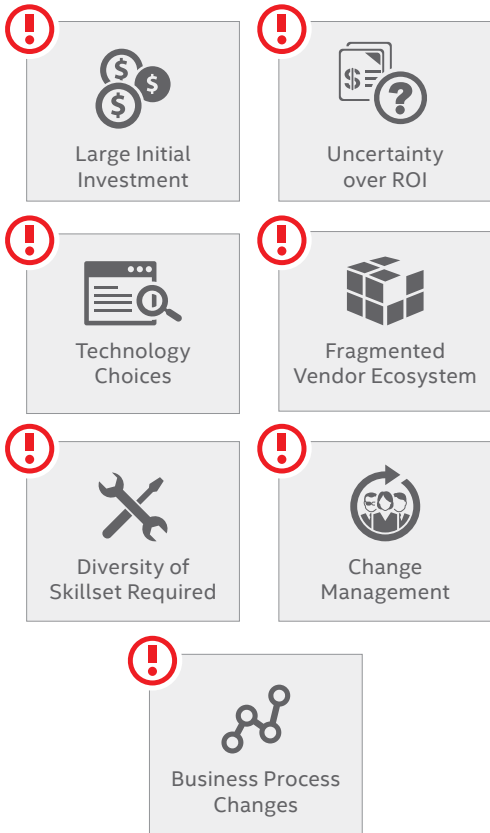
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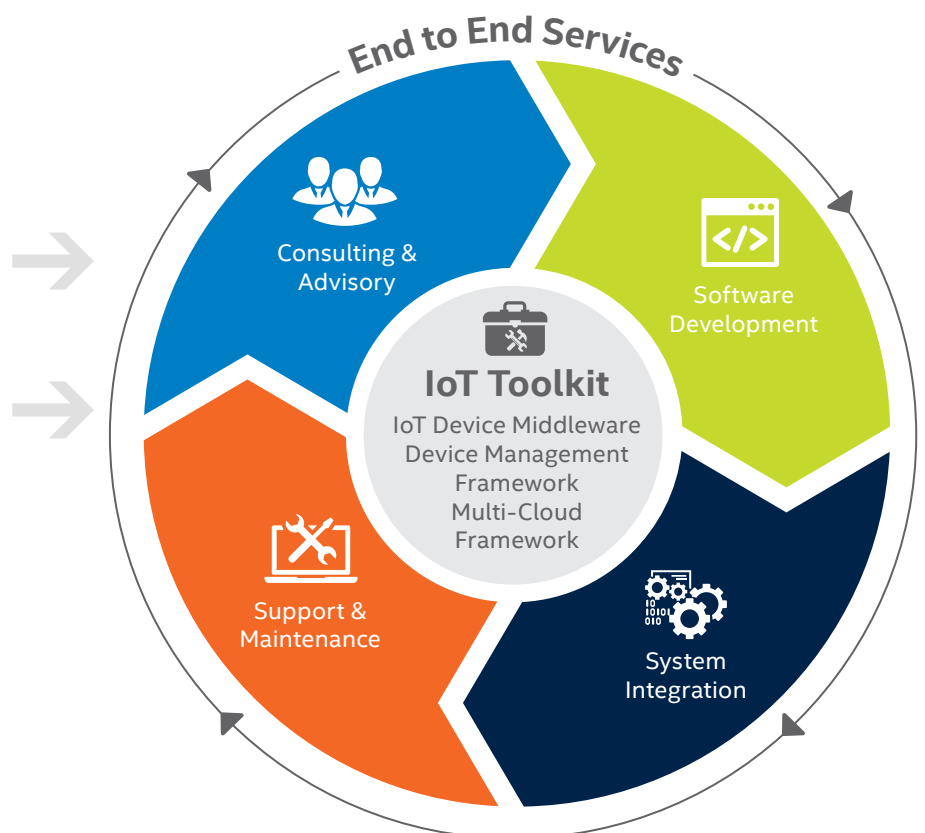
## SOLUTION DEPLOYMENT, ACCELERATED

Altiux offers comprehensive engineering services and an IoT toolkit to help you develop, deploy, maintain, and support complex, customized use cases for your users.

### IOT SOLUTION CHALLENGES



### ALTIUX OFFERINGS



- **IoT Device Middleware (BoxPwr)**

Altiux’s production-ready IoT middleware, BoxPwr, provides connectivity, security, manageability and value-added features essential for IoT device and gateway development. BoxPwr is a modular, highly configurable, standards-based software framework that is pre-integrated with Intel® processors to address the complete spectrum of performance requirements of IoT products, from extremely low power, constrained end nodes to full-service gateways.

- **Device Management Framework**

The more devices, the more complex it is to manage them. This software framework makes it easier to create standards-based, remote management systems for heterogeneous IoT devices, including provisioning, registration, commissioning, and FOTA, with multiple security modes.

- **Multi-Cloud Framework**

Determining which cloud platform to develop for, or trying to support multiple clouds, adds unnecessary complexity to your project. This software framework enables seamless data routing to any cloud, even multiple clouds simultaneously—so you don’t need to decide on a certain cloud before development.

- **End-to-End Services**

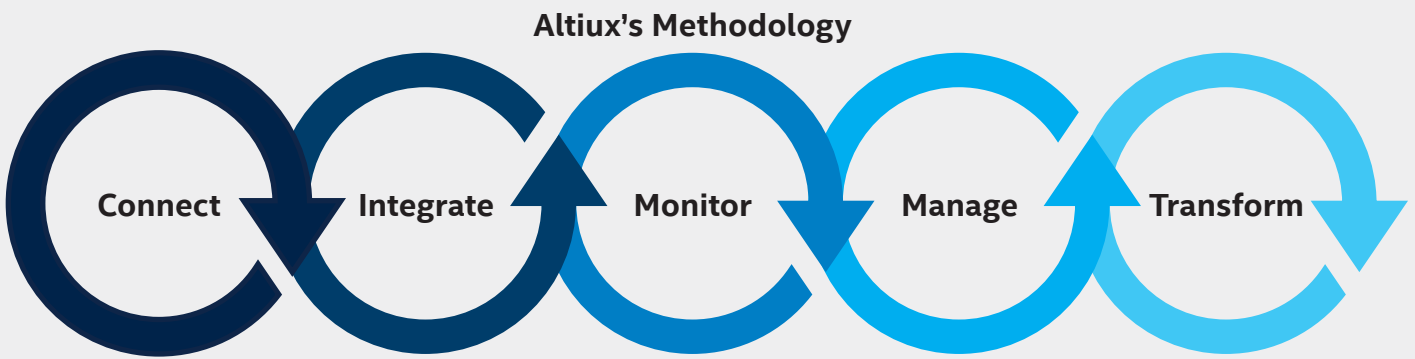
Altiux offers product engineering services across the IoT product development lifecycle—including consulting, device engineering, cloud and mobility, analytics, and integration and support services. With our wide technological expertise, and our commitment to customer service, Altiux is the ideal partner for your IoT solution.

## WHY ALTIUX?

- **Faster Deployment** - Whether you're working on a prototype or are ready to scale production and deploy, Altiux's pre-built IoT frameworks provide a robust, standards-based foundation so you can concentrate on what makes your solution unique.
- **Reduced Complexity and Technology Risks** - Altiux's solutions are operating-system independent so they can be easily ported from one environment to another. And, multi-cloud connectivity means you don't need to commit to a single cloud platform—when you build with Altiux, your solutions work with any cloud.
- **Future-Proof Development** - Altiux's frameworks are built on open standards and have a roadmap for emerging IoT standards and protocols, so you can rest assured that what you develop today will continue to perform tomorrow.
- **Optimized for Intel** - Altiux's frameworks are pre-integrated on Intel® Quark™, Intel® Atom™, and Intel® Core™ processors, delivering exceptional security, reliability, and performance, whether your solution is a constrained end node or a full-service gateway.

## SMART IOT SOLUTIONS ACHIEVED WITH ALTIUX

Altiux's IoT toolkit and comprehensive engineering services help customers create IoT-enabled solutions for smart building, smart industrial, and smart city use cases.



### Building Automation

#### Altiux Helps Intelligent Glass Manufacturer Reduce On-site Maintenance Calls

An intelligent glass company was looking for a better way to manage large amounts variable data from window controllers, and identify faulty controllers before performance degrades.

Altiux developed an effective, secure, and scalable cloud-based data management infrastructure to efficiently manage time series data. They also provided a rich analytic model to mine new and historical data to identify and address controller issues sooner—enabling preventative maintenance the reduced costs and improved client comfort.

### Industrial Automation

#### Altiux Helps Integrated Steel Plant Reduce ACC Energy Consumption by 18%

A large integrated steel plant wanted to optimize its air cooled condenser (ACC) energy consumption. Although the ACC units used Variable Frequency Drive (VFD) technology, their speeds were not being controlled effectively, leading to suboptimal performance and energy consumption.

Altiux's consultants evaluated historical operations data to identify problem areas and worked with the client to create a real-time analytics engine that could recommend the optimal fan array speed to the operators, while also predicting fan failures.

The manufacturer improved customer service and reduced costs from downtime and unplanned maintenance.



**ROI**

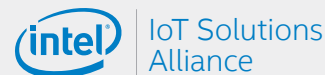
The plant experienced an 18% reduction in energy consumption—for a savings of almost 3000 units a day.



# HOW CAN ALTIUX HELP ACCELERATE YOUR SMART SOLUTION DEPLOYMENT?

Learn more and request a free demo at [www.altiux.com/products.html](http://www.altiux.com/products.html)  
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We partner with a variety of industry forums and alliances to deliver superior solutions.



## Accelerating the Transformation to Smarter Buildings

*The Internet of Things is advancing a new breed of smart buildings that better align with the priorities of property owners and managers. Intel is accelerating this transformation with IoT ingredients that enable better data analytics, simplify communication with the cloud, enhance security, and provide deep insights—driving greater efficiency and ROI.*

Learn more at: <http://www.intel.com/content/www/us/en/smart-buildings/overview.html>



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