Solution Brief:
IoT Apps Made Easy with the Mendix High Productivity Platform
Are You Ready for IoT?

The Internet of Things (IoT) is a transformative force driving the convergence of the physical and digital worlds. Start exploring the opportunities of IoT, using the Mendix Platform to create IoT apps that:

- Drive smarter business operations by turning sensor data into actionable insights
- Deliver new customer experiences by creating new services
- Develop new business models by monetizing information

Get a Grip on IoT Complexity

The IoT technology landscape is diverse, supporting a huge variety of use cases across industries. Reduce IoT complexity by taking the following approach:

- **Think in layers** – Design solutions taking a layered approach, logically grouping IoT technologies and services with clear interfaces.

- **Define a future-proof architecture** – Plan for diversity and define a flexible, pluggable architecture.

- **Take a platform approach** – Simplify IoT solution development leveraging the Mendix platform on top of your IoT software platform of choice.

- **Think big & start small** - Create a SWAT team, identify pilot projects, test & learn, and minimize time to value.
Address the Challenges of Creating IoT Solutions

Mendix helps unlock the value of IoT by addressing key challenges many organizations are facing:

<table>
<thead>
<tr>
<th>Challenges</th>
<th>Mendix Approach</th>
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<tbody>
<tr>
<td>Lack of Agility - Traditional development approaches don’t facilitate rapid experimentation and close collaboration between Business &amp; IT.</td>
<td>Single platform for collaborative development supporting the full ALM cycle and DevOps approach.</td>
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<td>Technical Complexity - Teams often struggle to integrate the heterogeneous mix of endpoints, IoT services, back-end systems, and data required for IoT solutions.</td>
<td>Out-of-the-box connectors for IoT and backend systems for integration with IoT apps and workflows.</td>
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<td>Skills Shortage - IoT solutions require scarce, hard-to-find skills spanning IoT technology, integration, data management, analytics, and app development.</td>
<td>Visual development puts app delivery in the hands of less technical developers.</td>
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IoT Apps Made Easy with Mendix

The Mendix Platform speeds IoT app development with:

- **Visual development** – Compose apps and workflows with visual models and app store building blocks.

- **IoT Connectors** – Leverage drag-and-drop IoT connectors that hide technical complexity.

- **Business & IT Collaboration** – Bring business & IT together in one collaborative environment.

- **Scalability & High Availability** – Benefit from self-service scaling and HA options to handle variable load.

- **Multi-cloud Deployment** – Deploy apps in your cloud of choice, leveraging Cloud Foundry and Docker.

- **Hybrid Cloud Support** – Orchestrate IoT apps and services across clouds.
Learn more about defining your IoT strategy and the essentials of an IoT Solution Architecture.

Get the IoT Solution Architecture Essentials Guide

Download guide