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Prepared TIBCO LABSTM
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TIBCO makes it possible to unlock the potential of real-time data for making faster, smarter decisions.
TIBCO LABS™: Continuous Innovation

Cloud Starters
Quickly build native cloud applications

Discover
Discover business processes from operational data

Cloud Conversations
Have a conversation with your enterprise data

Dovetail
Make blockchain smart contracts smarter

Auto ML for Data Science
Auto ML workflows for the generation of applications

AIR
Streamline IoT from the edge to the cloud

Journey
Engage with customers in new ways and exceed all expectations

ART
Augmented Reality (AR) with real time data for enterprise apps

GraphBuilder
Construct graph entities to leverage relationships in your data
What comes to your mind when you think IoT?
Template that customers can take and extend

- **Register and interact** with IoT devices (gateways, edge devices, sensors, etc.).

- **Process IoT derived data** anywhere it is needed (at the edge, gateway, data center/cloud, etc.).

- **Agnostic approach** to select any cloud provider and edge device while leveraging open source technologies.

- **Own, analyze and store** IoT data as needed.

- **Extensibility in every layer** for easy integration with other platforms.
Project AIR™ Capabilities

Connect and extract IoT data for processing

Create triggers to respond to IoT events

Data management

Feed into long term / Big Data repositories for historical analysis

Visualize and explore IoT data

Monitor, measure and react to IoT events via a customizable UX

Combine IoT data with AI/ML models

Ability to map various end points within the organization
Enterprise Use Cases Across Industries

**CONNECTED VEHICLES**
Automation of normal driving tasks to improve safety and reduce number of vehicles.

**TELEMETRY**
Deploy active fleet management systems to minimize risks associated with vehicle investment, improving efficiency and productivity while reducing costs.

**COMPLIANCE**
Use IoT data to gain analytical insights on your customers, internal operations and business processes so you can adjust as needed and comply with industry specific regulations.

**AUTOMATION**
Leverage sensors and cameras in combination with event/rule based engines to automate a sequence of steps in various business processes.

**LOGISTICS & SUPPLY CHAIN MGMT**

**TELECOM**

**MANUFACTURING**

**HEALTHCARE**

**RETAIL & CONSUMER GOODS**

**AUTOMOTIVE**

**TRANSPORTATION & FLEET MGMT**

**MAchine LEARNING AT THE EDGE**
Incorporating ML algorithms at the edge for real time decision making process and integrate/process all kinds of data feeds including feeds like Computer Vision for anomaly detection and preventive maintenance.

**PREDICTIVE MAINTENANCE**
By leveraging sensors, cameras and analytics, smart factories can reduce failures by automatically creating maintenance timelines, improve strategic planning capabilities and capitalize on cost savings.

**SMART METERING**
Understand when and how many resources are consumed to achieve goal levels of energy efficiency and savings while reducing operational expenses by automating manual tasks.

**ASSET TRACKING**
Easily locate and monitor key assets to optimize logistics, maintain inventory levels, prevent quality issues and improve theft detection.
Available Resources

TIBCO LABS™ page
https://www.tibco.com/tibco-labs

GitHub
https://github.com/TIBCOSoftware/labs-air/

TIBCO Community
https://community.tibco.com

Contact Us
tibcolabs@tibco.com
Project AIR™ Functional Components (Demo)

- IoT data extraction
- Multi-end point connectivity
- Data streaming, consolidation and storage
- Trigger based event response
- Data analytics
- Data enrichment with AI/ML models

Home Devices

Remote Devices

TIBCO Flogo™ Runtime (App / Device Services*)

Project AIR™ UI

Project AIR™

IoT Distributed Architecture
Project AIR™ Summary

Register and interact with IoT devices (gateways, edge devices, sensors, etc.) and process IoT derived data anywhere you need.

Business Value:
- Automation and cost savings
- Risk reduction and visibility
- Active customer engagement
- Improved workflow and automated commerce