



# Internet of Things Solutions

## BIAS Practice Overview

### Solution Overview

Today's world is filled with devices, sensors, and smart technology. Being able to tap into the data and even manipulate those devices remotely provides endless opportunities. These "devices" or "things" that can be connected via the Internet, make up the "Internet of Things".

BIAS leverages Oracle Internet of Things Cloud Service, a secure and scalable platform to help organizations quickly build and deploy IoT applications and fully capture and analyze their IoT data. Customers then can act to realize the efficiencies, opportunities, reductions in cost, and improvements in products and customer service promised by IoT.

BIAS provides the expertise to build solutions for virtually any Use Case such as:

- Fix Before Break Predictive Maintenance
- Track and Trace Assets and Inventory
- Fleet Monitoring
- Structural Health Monitoring
- IoT Supervisory Control and Data Acquisition (SCADA) for production manufacturing
- Retail and Hospitality Customer Experience

### Connect, Analyze, Integrate

The power of Internet of Things (IoT) Applications comes not only from device connectivity but also from the information that is analyzed and integrated into enterprise and third-party processes.

**CONNECT:** BIAS leverages Oracle IoT's client libraries, gateway software, REST APIs and streaming of data to deliver real-time information from IoT devices in user friendly format. BIAS utilizes wireless sensors such as accelerometers, strain gauges, anemometers and temperature sensors, intelligent gateways and adaptable protocols to build a wireless network on bridges, tunnels, retaining walls and other standing structures to gather valuable real-time information.

**ANALYZE:** BIAS delivers real-time analytics, utilizes business rules, and event stream processing to report out of tolerances and anomaly information. BIAS uses Oracle's Advanced Analytics, Machine Learning and AI to provide information on historical trends and predictive maintenance notification.

**INTEGRATE:** BIAS extends the value of IoT by integrating into enterprise and 3rd party applications and processes with IoT data. The solutions use open APIs and orchestrated integration and can be used to interact with municipal departments and other organizations such as local emergency, fire and police, weather, schools and hospitals. REST APIs. These provide API-based integration with Oracle PaaS and SaaS applications as well as with non-Oracle applications and IoT devices.

### Why BIAS?

Only BIAS offers complete end-to-end solutions with real-time dashboards, advanced analytics and comprehensive integration. BIAS has deep expertise in the entire Oracle Technology platforms and especially integration and analytics, the core features needed to realize the value of IoT. Oracle Platinum Partner with IoT premium status. Try before you buy – BIAS quick start program helps customers kick the IoT tires with a Proof of Concept in a matter of weeks. Mitigate risk in going to cloud with predictable, forecastable cloud costs. BIAS offers Managed Cloud Services or a subscription based solution.



### Key Features

- Integrates device data with enterprise applications and business processes
- Enables real-time, streaming analytics
- Provides end-to-end security for devices and applications
- Device virtualization exposes devices as easily managed resources
- Runs on Oracle's enterprise-grade cloud infrastructure

### What's Next?

Contact us at [info@biacorp.com](mailto:info@biacorp.com) to set-up a one hour consultation **free of charge** to discuss your business needs.

**BIAS**

**ORACLE** Platinum Partner  
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