eBECS SmartWorker

Using the power of Azure and the Internet of Things to maximise project and worker visibility, productivity and safety

**eBECS approach**

- Working prototype developed
- Analytics platform developed
- Management console and dashboards built
- Microsoft IoT Suite hosted
- Now live on major Dubai construction project
- Demo available for you to view

**Presentation and connectivity**

- Management Console
- Dashboards
- Operational System Integration
- Mobile
- Notification Hubs, Logic Apps

**Device connectivity and management overview**

- **Hardware:** Temperature | Humidity | Accelerometer | GPS | Alert Light | Buzzer
- **Applied to:** Hard Hat | Workwear | ID Badge/Entry Card | Wearable/Portable Items

**Analytics and operational insights**

**Analytics and visualizations**
Azure HDInsight, AzureML, Power BI, Azure Data Factory, Azure Data Lake

**Hot path analytics**
Azure Stream Analytics, Azure HDInsight Storm

**Cold path analytics**

**Business drivers**

**Health & Safety**
- What is the current environmental and physical state of my workers?
- Are they appropriately trained, equipped and authorised for a given work area?

**Timesheet and Security Monitoring**
- Are workers who they say they are?
- Are they actually active on site?

**Communication and alerting**
- Visible and audible alerts provide feedback to workers
- General commands such as ‘Stop work’ or ‘Extreme weather warning’ can be sent
eBECS SmartWorker

Your business imperatives, the Azure Cloud and the Internet of Things — everything comes together in our unified smart solution

What is eBECS SmartWorker?

eBECS SmartWorker is a Cloud solution that improves safety and productivity by giving site/production/logistics managers complete visibility of their workers’ health and safety conditions (including extremes of temperature and humidity), movements, location and utilisation.

**Typical industry applications:** Construction, Services, Utilities, Manufacturing.

**Faster, smarter two-way communication in the Cloud age**

Two-way technology resides in each worker’s hard hat, high-vis or other wearable or portable item. It relays information back and forth, safeguarding workers and keeping site managers up to date and in control through real-time dashboards accessible on desktops, laptops, tablets and smartphones.

So what are the real business benefits?

- People can be tracked in real time, which improves health and safety and protects profits and schedules
- A whole range of Health and Safety alerts can be set up, triggered by incidents such as an impact blow to the worker’s helmet, or the worker’s helmet falling or moving beyond a pre-set speed
- Alerts can be set up to be triggered by certain climatic or weather conditions such as excessive humidity, heat, approaching storms, risk of lightning strike etc
- Alerts can be raised if someone enters a restricted area or an area in which they are not authorised, equipped or trained to work
- Safeguards can be put in place to prevent timesheet fraud or other criminal activity
- Site/production/logistics managers or supervisors can see information instantly on a dashboard rather than having to compile their own reports or request reports through IT, which can take days or weeks
- eBECS offers all of this functionality as a complete managed service, allowing customers to focus on project/service delivery and profitability.

How Cloud-based eBECS SmartWorker answers the highest level demands for smarter solutions

Increasingly CEOs and COOs are challenging their managers to make maximum use of emerging IoT (Internet of Things) capabilities to drive safety, efficiencies and profits. At the same time they are realising that Azure offers powerful analytics and operational insights, not just servers in the Cloud.

The eBECS SmartWorker solution brings all of this thinking together, while also integrating seamlessly with customers’ ERP systems and existing timesheet and health and safety modules.

Request a SmartWorker demo now. Email info@ebecs.com or call +44 (0)8455 441 441