Locate assets efficiently

AT&T helps locate critical equipment, tools, and parts
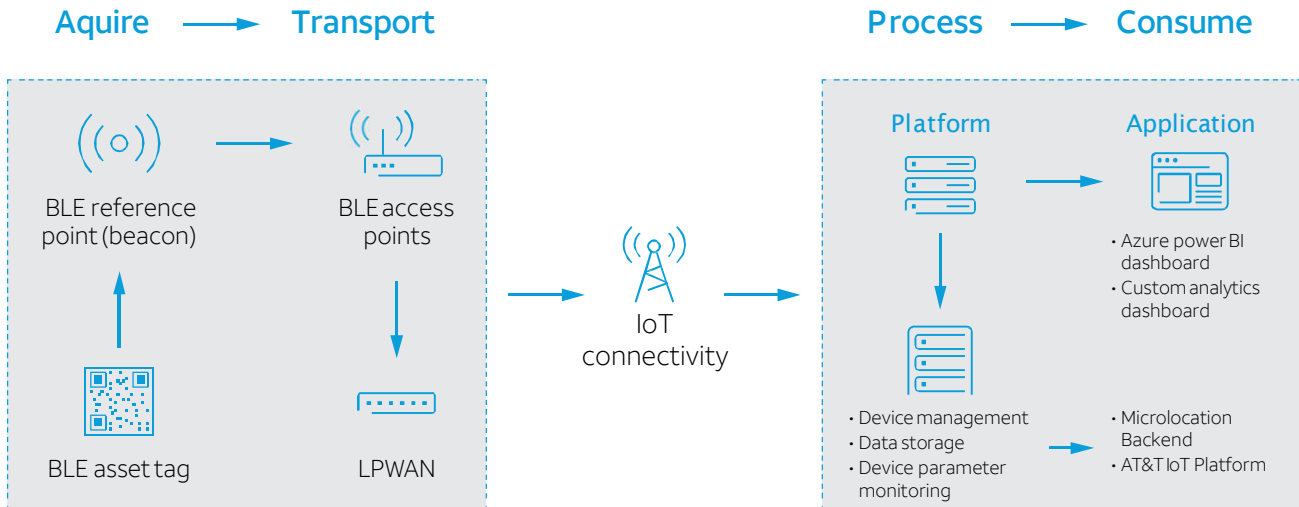

- **Plan and deploy an indoor/outdoor, near-real-time asset tracking and monitoring solution**

- **Capture and generate actionable data with AT&T IoT solutions for track & trace use cases**

When tools, parts, and other critical equipment go missing, the impact can be more than just slowed production or limited capacity; it can drain resources, add waste, and lower employee morale – all of which can take a hit to productivity. AT&T IoT-professional-services-led engagements use cost-effective Internet of Things (IoT) technologies to locate your assets, while keeping complexity to a minimum and managing cost.

Potential benefits:

- Independent wireless network, separate from IT/OT networks

- Scalable asset location accuracy, (high/low density mix possible)

- Broad ecosystem of low-cost tags, beacons, and access points

- Simplified architecture, sensor interoperability, and payloads

Seamless, flexible, scalable indoor/outdoor asset tracking

Aquire → **Transport**   **Process** → **Consume**

BLE reference point (beacon)

BLE access points

BLE asset tag

LPWAN

IoT connectivity

Platform

Application

- Azure power BI dashboard
- Custom analytics dashboard

- Device management
- Data storage
- Device parameter monitoring

- Microlocation Backend
- AT&T IoT Platform

Reference point location beacons using Bluetooth low energy (BLE) radios are placed throughout a facility. These long-life beacons provide a network of location information for use by location-aware asset tags. Beacons can be placed in either high-or-low-density configurations, or both, depending on the level of location precision required in a facility.

Bluetooth asset tags communicate with beacons and spend most of their life asleep. Waking up periodically, they scan for nearby reference points, make on-board calculations of location, and report to the wireless sensor network. These low-cost tags can be attached to all manner of items in a plant, made to collect atmospheric data, calculate location, and pass data to a nearby Bluetooth gateway, and from there send payloads to the cloud.

Enhancing local wireless networks…   ## …to enable indoor 'last yard' coverage

Validate timely movement of components

Track and monitor goods in transit

Indoor asset location

Monitor environmental parameters in storage

Why AT&T

AT&T Professional Services provides consulting, hardware (tags, anchors, access points) integration, and deployment. Our consultants can help lead a multi-phase pilot approach to allow for business case development and to target areas most likely to help generate returns on investment.

For more information, go to www.att.com/iotproservices