IoT ARCHITECTURE AND ENGINEERING

In a world where everything is more connected than ever before, choosing the most relevant, scalable, and secure IoT Solution has become increasingly important.

- Facilitation of responsive interfaces within a sophisticated and unified network
- Conducive and sustainable environments aligned with culture, workflow and human necessity
- Enhanced end user experience by providing technology integrated comfort and energy efficiency

Use Cases and Challenges	Outcomes and Benefits
Budget, aesthetics, performance and a myriad of choices that become convoluted and difficult to rationalize for selecting the most secure, relevant, and scalable IoT solution.	BNS UEP's IoT Lifecycle is rooted in an enterprise risk architecture based approach, which ensures that all of the IoT contributing factors and inter-dependencies (i.e. cost, end user experience, location, placement, secure communication) have been taken into consideration.
After providing the architectural blueprint and layout of a new or renovated commercial space for our clients, they have a limited amount of time and are short staffed for designing, architecting, and engineering an IoT solution.	At any point in the IoT Lifecyle, BNS UEP is ready, flexible, and prepared to collaborate with you by providing an objective set of eyes and on average 15 years of experience for designing, architecting, and engineering an IoT solution.
IoT technology obsolescence has drastically reduced our ability to sustain, scale, and provide the most current, right sized, and relevant automation and orchestration for our work environment.	Our end to end IoT Lifecyle becomes defined and attained by identifying the current state and mapping to the target state. This is based on business goals and objectives, creative and marketing initiatives, end user experience, and securing the IoT devices and operational processes through Penetration Testing and Vulnerability Risk Management.
Difficulty and constraints in measuring the effectiveness, usability, and security of our IoT solution.	Since BNS UEP takes into consideration all variables and contributing factors, we can measure the performance and security through Data Analytics and Vulnerability Management.

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What We Do

Internet of Things (IoT) goes beyond automating and orchestrating household functions (i.e. Temperature, Sound, Light) and friendly home devices that listen to everything we say. At BNS UEP, we work with the following verticals (Architectural, Energy, Multi-Media, Entertainment, Financial, Healthcare, Start Ups, Real Estate, Smart Cities) in customizing and designing visually and aesthetically appealing layouts for IoT devices, the architectural blueprint, and engineering of an end to end IoT solution.

How We Do It

By understanding the organizational structure and cultural environment, this enables a collective, collaborative approach for identifying the current and mapping to the target state. Whereas, an end to end IoT Lifecyle becomes defined and attained based on business goals and objectives, creative and marketing initiatives, end user experience, and securing the IoT devices and operational processes through Penetration Testing and Vulnerability Risk Management.

Why It Matters

Rather than approaching IoT as a shiny device that performs unparalleled automation and orchestration of functions and processes, BNS UEP's IoT Lifecycle takes into consideration and accounts for all variables. This includes customizing, right sizing, and balancing out your creative and aesthetical needs with ultimate and optimal performance and security.

By taking an enterprise architecture risk based approach, we ensure that all of the IoT contributing factors and inter-dependencies (i.e. location, placement, secure communication) have been taken into consideration. This translates to greater visibility in identifying risks prior to implementing an IoT solution. As a result, this provides enhanced end user experience through integrating technological comfort and energy efficiency, sustainable and scalable environments conducive to the environment (i.e. spatial awareness), culture and human necessity and the facilitation of responsive interfaces within a sophisticated and unified network.