

L&T Technology Services

i-BEMS™ : DELIVERING UNFORGETTABLE SMART BUILDING EXPERIENCES

STATE OF THE MARKET

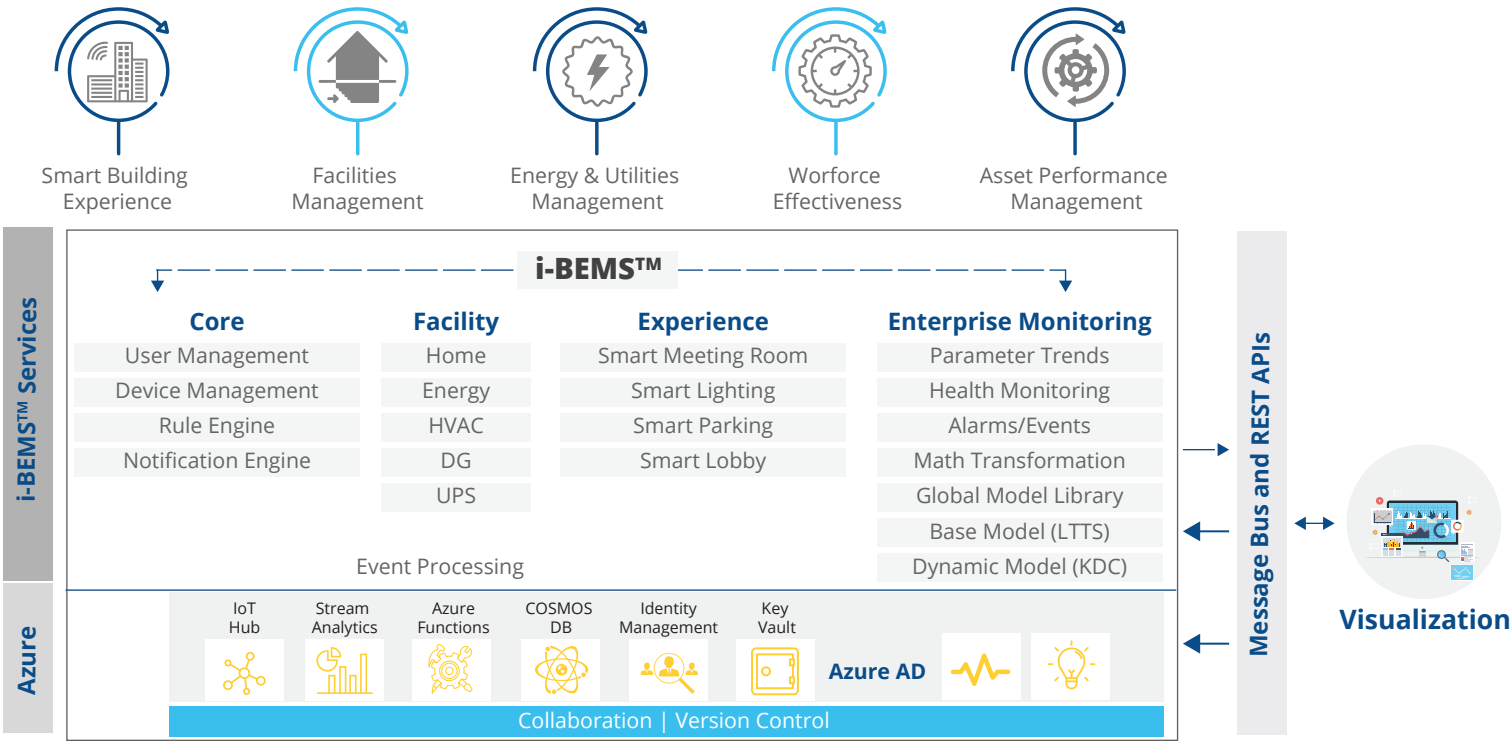
Projected to be worth $31.74 billion by 2022, the smart building and campuses market is one that has a promising future. While capitalizing on these opportunities, the key focus for smart building service providers has been to deliver unique solutions that will drive the market to its full potential. From mobility to space usage optimization, smart building solutions are being designed to improve building experience for occupants, whether they are customers, employees, or residents. Towards this end, it has become essential to implement effective intelligent building experience management systems that not only improve asset management but also provide occupants and visitors with an unforgettable experience.

For smart building service providers, facilitating the concept of net zero buildings have become a priority. With the governments introducing policies that mandate or provide tax incentives and utility rebates, building owners too have been demanding platforms that can reliably achieve net zero compliance. This will in effect lower emissions and boost sustainability of the facility.

SOLUTION OVERVIEW

Born out of a combination of L&T Technology Services (LTTS') extensive understanding of the smart buildings sector and collaboration with Microsoft Azure, the Intelligent Building Experience Management System (i-BEMS™) is a proven solution for building owners looking to achieve net zero compliance. The modular 'System-of-Systems' platform, integrated with Microsoft Dynamics 365 for Field Services for real time optimization and improved ROI, enables the unification of all campus operations under one system and uses advanced energy analytics and fault diagnostics for energy savings. With an eye to deliver a rich occupant and visitor experience, the platform's scalable architecture leverages proprietary Azure services like IoT Hub, Stream Analytics, Azure Functions, and Cosmos DB, in addition to the agile field service managment capabilities of Microsoft Dynamics 365.

LTTS's services are aligned to end-user demand for a full digital experience. With quality of experience at the fore, we offer solutions that promote smart building experience, facilities management, energy and utilities management, asset performance management, and workforce effectiveness.



i-BEMS™ SERVICES FRAMEWORK

KEY DIFFERENTIATORS

- Modular Architecture
- Azure Cloud for smart campus scalability
- Comprehensive energy analytics
- Platform-agnostic mobile solution
- User-friendly design for easy configuration
- Strategic partnership with OEMs with assured local support

BENEFITS

LTTS' i-BEMS™ platform allows building owners to:

- Reduce energy consumption through micro grid management, grid connectivity, lighting, HVAC, and energy analytics
- Implement predictive and preventive maintenance of assets through early notifications of failure on both the mobile and web app
- Leverage interactive and intuitive graphical displays, user defined views, and reports to simplify and streamline system operations for a better ROI
- Gather real-time insights on Inactive Alerts in Microsoft Dynamics, and automatically generate work orders for closure
- Utilize an open architecture that leaves room to integrate wired and wireless technologies

USE CASES

Implemented energy conservation and water recycling measures for a green building initiative to be completed and LEED-certified (green building certification) in 2019.

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ENGINEERING **THE CHANGE**

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Customer Success Story:
i-BEMS™ -Smart Building Solutions



Developed Azure based solution(**i-BEMS™)** for Smart meeting rooms and indoor way finding. To make building smarter for greater operational efficiency improved occupant safety and comfort and reduced maintenance costs.

- Deal Size
  - $500K
- Closed Date
  - April 2018
- Vertical/Region
  - Financial centre
  - Australia

Win Results

ANZ Workspace transformation using Microsoft SMART SPACES

SI Scope :

- Establish Smart Spaces Platform on ANZ Azure Tenant
- Digital wayfinding
- Meeting room booking

Status :

- Requirement finalization, high level design and architecture