TECHNOLOGY, MEDIA & TELECOM ABSTRACT

Smart Buildings - 2018

Bryan Montany, Research Analyst, Home and Building Technologies - April 2018

The industry's most comprehensive analysis of this robust market from a regional and vertical sector perspective – forecast to reach over $20.8 billion globally in 2022.

This is the first edition of IHS Markit's research into the market for smart buildings products from the perspective of building managemet system (BMS) platforms and equipment that is integrated through these platforms. In advanced cases, BMS platforms are capable of performing predictive analytics and executing complex algorithims to manage equipment, and these functions constitute the foundation for smart buildings.

This study is composed of a chapter on global market trends, a chapter analyzing global market data of platforms and equipment types by region, and a chapter that compares recent market developments to model case studies of projects in six end-user industries.

This report was developed using a variety of sources, including IHS Markit reports covering each of the 14 connected equipment domains documented in this research. Primary research interviews were conducted with equipment manufacturers, platform vendors, systems integrators, engineers, architects and building owners. The report provides a clear and consise outlook of market sizes, growth forecasts, market trends, and the competitive landscape of this industry and gives industry stakeholders crucial insight into the opportunities and dynamics of the market over the forecast period.

Access to IHS Markit's Smart Buildings Brief (publishing May 2018), which examines the market for IP-capable and IoT-enabled equipment, is also included with this report.

ACTUALS AND FORECAST

Frequency, Time Period
- Base year (2017)
- 5-year annual forecast (2018 – 2022)

Measures
- Revenues
- Units
- Attach rates (of connected equipment with BMS platforms)

PRODUCTS COVERED
- Equipment connected through BMS platforms
  By domain type, by building size
- Equipment managed by BMS platforms
  By domain type, by tiers of integration
- BMS platforms
  By application type, by primary location of data processing
- Standalone smart thermostats
- IoT gateways

REGIONS COVERED
- North America
- Western Europe
- Asia Pacific
- Rest of World

VERTICAL MARKETS COVERED
- Commercial
- Educational facilities
- Government buildings
- Healthcare
- Leisure and hospitality
- Retail
- Other (including airports and industrial facilities)

  Each end-user industry is segmented into new construction and retrofit projects.

Table 1.8: The market for BMS Platforms by primary location of data processing: World Revenues ($ millions), with annual growth rates		2017	2018	2019	2020	2021	2022	DIFF 17-22	CAGR 17-22
Locally hosted managerial software	Revenues ($ millions)	X.X	X.X %	X.X %	X.X %	X.X %	X.X %	X.X	%
Cloud architectures	Revenues ($ millions)	X.X	X.X %	X.X %	X.X %	X.X %	X.X %	X.X	%
Edge architectures (edge devices with equipment)	Revenues ($ millions)	X.X	X.X %	X.X %	X.X %	X.X %	X.X %	X.X	%
Edge architectures (with IoT Gateways)	Revenues ($ millions)	X.X	X.X %	X.X %	X.X %	X.X %	X.X %	X.X	%
Total Revenues ($ millions) Revenue growth		**X.X**	**X.X** %	**X.X** %	**X.X** %	**X.X** %	**X.X** %	**X.X**	%

Key Issues Addressed
- What is the current size of the global market for BMS platforms and the equipment that is connected through these platforms? How does this differ by region?
- How do different connected building domains (HVAC, lighting, security, fire detection, etc.) fit into the smart building concept?
- What additional functionalities can integrated systems offer in the most advanced smart buildings? What barriers are preventing more buildings from upgrading to incorporate these functions today?
- How do buildings in different end-user industries vary in regards to domain types that are integrated and their levels of integration?
- What portion of BMS platform analytics are performed on-site, versus in the cloud? What trends are influencing the adoption of cloud or edge computing frameworks?

LEAD ANALYST

Bryan Montany, Research Analyst, Home and Building Technologies

Bryan is an analyst for IHS Markit Technology's Home and Building Technologies group. Based in Denver, Colorado USA, Bryan is a member of a team of analysts focused on global research for access control, fire detection and suppression equipment, intruder alarms, smart home, building automation, and lighting and LEDs.

Learn More about IHS Home & Building Technologies

IHS is a leading provider of market intelligence, analytics and solutions to the smart home, security and building technology industries. The group delievers next-generation information and unique insights that allows users to draw meaningful and actionable conclusions. For the building technology market, we provide dedicated market studies for building automation equipment, smart buildings, lighting, HVAC, physical security (access control and intruder alarms), entrance control and fire.

The level of detail is unmatched. Our reports can have as many as 200 data tables that analyze the market by product type, industry sector, country and sales channel. With analysts based in Europe, the US and Asia, we are also able to provide global coverage with local market insight.

Our range of products and services includes detailed annual market reports, quarterly market trackers and customer surveys. As well as the off-shelf studies, we also offer custom research and strategy consultancy services, and have successfully completed projects for some of the world's largest firms.

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Executive Summary

World market for equipment connected through BMS platforms by end-user industry Revenues ($M), 2017 and 2022

Source: IHS Markit
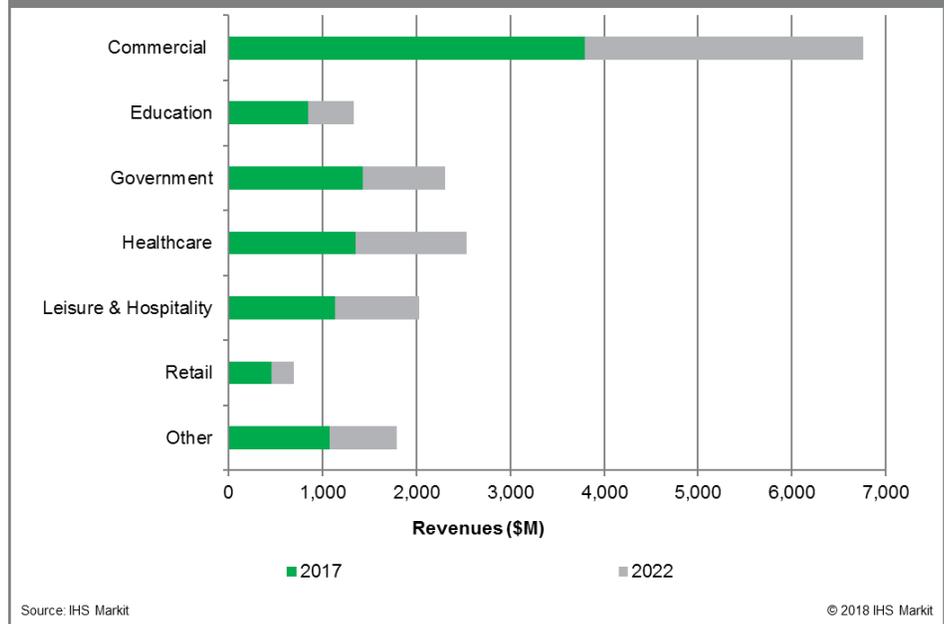
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