Brick Consortium Announces Inaugural Commercial Members

- Five leading smart building and building analytics companies join consortium behind open source Brick schema
- Consortium will work together, along with academic partners, to extend Brick and further develop interoperability with other standards
- Consortium will release next version of the Brick schema by February 2022

Pittsburgh, PA -- (January 20th, 2022) -- The Brick Consortium, Inc, the non-profit membership-led organization that sponsors and encourages the research and development of the open source Brick schema specifications for the built environment, today announces that five companies have joined on as inaugural members: Carrier, Clockworks Analytics, Johnson Controls, Mapped, and Schneider Electric. These commercial members join academic members who hail from Carnegie Mellon University, the Colorado School of Mines, the University of California at Berkeley, and the University of California at San Diego.

The consortium, through the Brick schema (https://brickschema.org/), addresses an important industry and societal need by helping make data of the built environment interoperable. The Brick Schema provides a common mapping and interchange format for data from sources such as the HVAC and building automation systems, lighting, electrical, access control, fire protection, occupancy, and other common building systems. The consortium provides governance for the Brick Schema specifications and is developing tooling, conformance testing protocols, and a repository of reference models and canonical use cases. The consortium also funds the research of work related to Brick and the built environment and works to evangelize the use of the Brick schema.

“We are excited to have these industry leaders joining the Brick Consortium and contributing to the development of the Brick schema,” said Carnegie Mellon University professor and Brick Consortium Board member Mario Bergés. “The Consortium will provide the community assurances that Brick has a long-term future and can be a contributing technology for improving the efficiency and comfort of buildings.”

Carrier:

"In support of Carrier's commitment to make buildings healthy, safe, sustainable and intelligent, Carrier leverages Brick in its Abound digital platform," said Bobby George, Senior Vice President & Chief Digital Officer, Carrier. "We believe in an open, interoperable and connected future for the built environment and for this, we're proud to be part of the Brick Consortium."

Clockworks:

Clockworks Analytics is a leading provider of cloud-based fault detection and diagnostics software for buildings. Clockworks' utilizes a standardized information model for point typing, equipment and system relationships, and mechanical and controls sequence metadata; and is currently connected to more than 400 million square feet and over 320,000 mechanical assets in 30 countries. In joining the Brick Consortium, Clockworks will share its consistent approach to information modeling with the open-source community, with the goal of helping drive the industry toward a universal standard.

"The Brick Consortium is an important community driving building system metadata standards forward," said Nick Gayeski, CEO of Clockworks Analytics. "For Clockworks, joining each of the open-source data interoperability communities underscores our commitment to help the industry turn operational data into real-time insight for healthier buildings in a scalable way."

Johnson Controls:

"Brick is foundational to our OpenBlue Digital Twin strategy and the Brick representation schema is leveraged across multiple OpenBlue products," said Vijay Sankaran, Chief Technology Officer, Johnson Controls. "We are pleased to be a part of the Brick Consortium and work with the open source community to create an expanded digital twin ecosystem that serves the industry as a whole, allowing for more integration and driving partnerships that create smarter, healthier and more sustainable buildings."

Mapped:

Mapped provides an end-to-end data infrastructure for buildings. Everything from data discovery to a single user-facing API that connects all the data generated by the people, places, and things in buildings. "In today's landscape it's challenging to manage all the heterogeneous data within a platform let alone also provide a common view of the digitized world to the users while supporting interoperability across different platforms. Mapped quickly recognized the value of Brick as the best repository for collecting and organizing the common metadata schema for building applications" said Jason Koh, Chief Data Scientist, Mapped. "Creating a uniform ontology across the domains requires collective effort, and Mapped is proud to be a part of the innovative and collaborative Brick community. Mapped stands by Brick's transparent governance and aims to actively contribute to the ecosystem."

Schneider Electric:

> "We are excited to join forces with the Brick consortium to help create momentum for its adoption within the industry," says Manish Kumar, SVP, Digital Buildings at Schneider Electric. "Building owners want their buildings to be sustainable, resilient, hyper-efficient and people-centric. Essential to achieving that is an open building system that simplifies data access and management. Brick schema provides clear, consistent, building-centric ontology to leverage data for Schneider Electric EcoStruxure™ for Buildings. The schema makes it possible to enhance engineering efficiency. It helps system integrators and end-customers achieve operational and energy efficiency, as well as healthy and flexible buildings of the future"

The Brick Consortium members and other interested open source contributors are developing the next release of the Brick schema, version 1.3. The consortium expects to complete development this month, and after a review process the members will approve the final release of version 1.3 by February 2022. Highlights of the 1.3 release include official integration with realtime data sources such as BACnet and timeseries databases, a more expressive model for chillers and other heat pumps, and features designed to make interoperability with future standards easier, such as the ASHRAE 223P standard currently under development. The code and development roadmap of the Brick schema can be found at https://github.com/BrickSchema/Brick

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About Carrier:
As the leading global provider of healthy, safe, sustainable and intelligent building and cold chain solutions, Carrier Global Corporation is committed to making the world safer, sustainable and more comfortable for generations to come. From the beginning, we've led in inventing new technologies and entirely new industries. Today, we continue to lead because we have a world-class, diverse workforce that puts the customer at the center of everything we do. For more information, visit www.Corporate.Carrier.com or follow Carrier on social media at @Carrier.

About Clockworks Analytics:
Clockworks Analytics is an essential smart building intelligence platform that provides data-driven insights into property operations for facility and energy managers. Through its technology, which is the world's most widely utilized cloud-based building analytics software, the company proactively identifies inefficiencies and root causes within building systems and prioritizes the most urgent tasks for building staff in real time. By creating an unprecedented level of operational intelligence about a building, Clockworks helps property teams improve the reliability of their buildings' equipment, while improving air quality and reducing energy consumption and operational costs. To learn more, visit https://clockworksanalytics.com/

About Johnson Controls:

At Johnson Controls (NYSE:JCI), we transform the environments where people live, work, learn and play. As the global leader in smart, healthy and sustainable buildings, our mission is to reimagine the performance of buildings to serve people, places and the planet.

With a history of more than 135 years of innovation, Johnson Controls delivers the blueprint of the future for industries such as healthcare, schools, data centers, airports, stadiums, manufacturing and beyond through its comprehensive digital offering, OpenBlue. With a global team of 100,000 experts in more than 150 countries, Johnson Controls offers the world's largest portfolio of building technology, software as well as service solutions with some of the most trusted names in the industry. For more information, visit https://www.johnsoncontrols.com/ or follow us @johnsoncontrols on Twitter.

About Mapped:
Mapped is a data infrastructure platform for IoT, powering the API economy. Capable of quickly mapping all devices on a network in commercial and industrial IoT environments, we are changing the dynamic for how data from complex environments is extracted by simplifying the data integration process with one simple, secure, and reliable API. For more information head to mapped.com, or connect with us on LinkedIn.

About Schneider Electric:
Schneider's purpose is to **empower all to make the most of our energy and resources, bridging progress and sustainability** for all. We call this **Life Is On**.
Our mission is to be your **digital partner for Sustainability and Efficiency**.
We drive digital transformation by integrating world-leading process and energy technologies, end-point to cloud connecting products, controls, software and services, across the entire lifecycle, enabling integrated company management, for homes, buildings, data centers, infrastructure and industries.
We are the **most local of global companies**. We are advocates of open standards and partnership ecosystems that are passionate about our shared **Meaningful Purpose, Inclusive and Empowered** values.
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