

Home Connectivity Alliance Announces First Integration of Energy Management Specification

Partnership between Trane Technologies and Resideo utilizes HCA technology to help reduce strain on the power grid and save customers money

Beaverton, OR – Nov. 6, 2025 – [Home Connectivity Alliance](#) (HCA), an organization dedicated to the development and promotion of secure interoperability and energy savings across long-life appliances, HVAC systems and TVs within the connected home ecosystem, today announced the first real-world integration based on the HCA Energy Management Interface Specification 1.0.

The utility savings program is the result of a strategic collaboration between HCA members Resideo and Trane Technologies. It employs HCA's innovative cloud-to-cloud (C2C) API to facilitate communication between the energy aggregator and manufacturer to allow homeowners to participate in energy management programs. The program is currently active in the Electric Reliability Council of Texas (ERCOT) market. More than 700 Trane customers in Texas have enrolled in the program, with more to come.

"Home Connectivity Alliance is pleased to support Trane Technologies and Resideo in the first real-world implementation of the Energy Management Specification," said HCA President Yoon Ho Choi. "This integration illustrates the credibility of the Energy Management Specification and is a prime example of manufacturers coming together to achieve business objectives and save people money through energy savings. I look forward to seeing additional exciting integrations from our members in the future."

Announced in 2024, the [HCA Energy Management Specification 1.0](#) established an industry standard for energy-efficient solutions within the connected home, allowing key data from appliances and HVAC systems that consume the most energy to be more accessible, leading to energy usage insights and cost savings. The HCA Energy Management API is built around industry best practices and protocols – such as the EU Code of Conduct (CoC) for Energy – and supports multiple smart appliance and HVAC ecosystems, enabling streamlined integration regardless of manufacturer or device type.

The HCA Energy Management 2.0 specification, targeted for release in 2026, expands HCA Energy Management to include updated cybersecurity features, new configuration options for demand response, and added support for interactions between energy management systems and smart appliances.

Perspectives

"HCA has been instrumental in enabling our partnership to thrive. By leveraging the HCA standard, we've been able to launch this program far more efficiently than we could have through a direct integration," said Michael Siemann, Director of Technology, Resideo Grid Services, and HCA Energy Management Task Force Chair. "This has been one of the smoothest integrations we've ever completed, thanks to the groundwork established through the Energy Management Specification. It's a great launching-off point that also opens the door for other companies to do the same. The implications for demand response and the environment are significant and we're excited about what this means for the future."

"This integration validates our participation in HCA and the relationships that we've built over the last several years," said John Hughes, Chief Engineer, Trane Technologies, and HCA Technical WG Chair. "We've strived to build a minimalistic API that meets the needs of lots of different appliance types — not just a single use case — and I think our ability to get this functional program into production so quickly and effortlessly is a testament to the efforts of our TWGs. We have implemented a proven business model, and we have done it in such a way that we can now integrate with other partners who use the same API."

Join Home Connectivity Alliance

To participate in a global community of brands driving innovation and collaboration to advance energy management standards and achieve business objectives, consider joining Home Connectivity Alliance. View the HCA membership levels and benefits on our website: <https://homeconnectivityalliance.org/membership/>

About Home Connectivity Alliance

The Home Connectivity Alliance is a member-driven organization comprised of 22 global brands dedicated to the development and promotion of safe and secure interoperability and energy savings across long-life appliances, HVAC systems and TVs within the connected home ecosystem. For more information, visit www.homeconnectivityalliance.org.

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