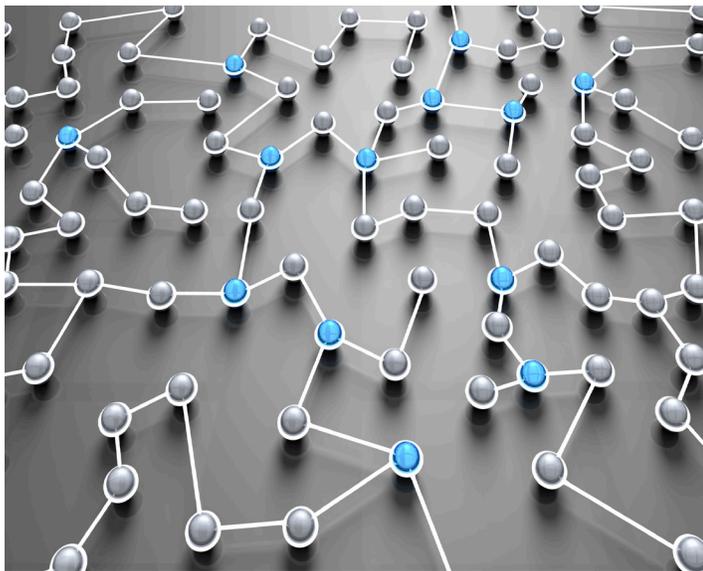


INTERNET OF THINGS: ADAPTIVE ANALYTICS USE CASES



Discovering emergent insights across Big Data-style data sets requires sophisticated mathematical and visualization techniques

A single sensor collecting data at one-second intervals will generate 31.5 million data points year. As industrial and commercial sensor networks proliferate, and the consumer sector embraces complementary technologies for everything from energy consumption to driving behaviors, the amount of stored data associated with specific networks, machines, and individuals will skyrocket. The opportunity to transform these vast data sets into a source of rich and actionable information is fundamental to our vision of the Internet of Things (IoT). How will you find the trends within your data center that will transform your business?

Adaptive analytics are what enable devices to analyze and interpret enormous amounts of data in order to make thousands of real-time decisions. Over time, the data generated from those decisions and the results they produce deliver sharp insights to the enterprise that help refine and improve operational processes. Adaptive analytics also make smart systems smarter, enabling them to recognize patterns, make adjustments and improve performance. Adaptive analytics enable devices to identify, diagnose, and report issues more precisely and quickly as they occur—and often “self-heal” in a closed loop by making mechanical adjustments within their control.

Adaptive analytics have applications across a variety of industries:

- **Transportation:** Smart control systems can tell trains to slow down based on a variety of constantly changing external data inputs, such as weather, topography, location, distance from destination, track conditions, or car-to-car communication indicating another train is ahead.
- **Energy:** Devices can adjust the speed and blade pitch of wind turbines to improve efficiency and reduce wear.
- **Buildings:** Adaptive analytics can improve the accuracy and performance of systems used to monitor and manage energy consumption, climate control, lighting, mechanical equipment, and security.

WIND RIVER SOLUTIONS

Few companies are as well equipped as Wind River® to help organizations determine how to leverage IoT today. In fact, Wind River has been delivering solutions that power interconnected, automated systems for decades. With more than 30 years of embedded leadership and innovation, our technology is at the heart of more than 1 billion embedded computing devices around the world.

Wind River has translated that unmatched embedded experience into deep cross-sector expertise, making it a trusted partner for customers in a wide range of industries. We combine superior embedded technology with professional design services to develop end-to-end solutions that unlock new business potential and unleash productivity. We help customers expand capabilities, maximize existing infrastructure, and manage risk as they identify the best and fastest path to value. By helping convert data into actionable insight, Wind River continues to demonstrate it is the partner of choice, instilling the confidence that the promise of the IoT is within reach today.