Rebound Cloud: Sometimes the Buzwords are Real

Rebound Technologies
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SUMMARY
Behind every IcePoint enabled product is a suite of advanced software tools that enable higher availability, greater value generation, energy savings, and state of the art climate impact. Rebound cloud puts all these tools in one package that accompanies every IcePoint based product and is customized specifically for every application Rebound serves.

Figure 1: Rebound Cloud is a combination of many advanced digital tools.

REBOUND CLOUD TOOLS

The Rebound Cloud is a robust set of software tools that accompany every IcePoint enabled product. These tools include:

Digital twins

Rebound has been using digital twins to implement advanced feed-ward machine learning algorithms in its systems for more than a decade. Each unit is equipped with both onboard and offboard digital twin capabilities

Machine learning / AI controls

Systems use a combination of standard automation techniques that are augmented and improved by the use of ML and AI based controls.

Over the air upgrades

Every IcePoint enabled system receives regular software and controls upgrades to maximize value and adapt to changing requirements.

Superviseable autonomy

IcePoint based products are 100% plug and play. Each unit will automatically maximize energy savings and value delivery without a connection to a broader building controller. However, the units are capable of BACnet and Modbus control by any leading building controls system.

Remote monitoring and predictive maintenance

The rebound cloud allows each unit to be monitored remotely allowing Rebound's trained technicians to service units before serious downtime events occur.

Historical data visualization and analysis

Multiple times a minute a system snapshot is send into the cloud allowing customers to build a historical dataset that can be easily brought up, visualized, and analyzed in the Rebound cloud's dashboard system. No data or insights are ever lost.