

ENTOUCH™

Improve Profits. Improve the Planet. One Building at a Time.



25 February 2020

ENTOUCH's VISION

Our vision is to provide multi-site owners with the industry's most progressive “smart” technology, cloud-based software and advisory services that drive enterprise-wide visibility, tangible business outcomes and greater profitability



OUR FOCUS IS MULTI-SITE FACILITIES

Multi-site facilities teams face unique operational challenges - geographically distributed facilities, limited facilities staff, a reliance on outsourced services and limited or no real-time operational data



icpenney

RETAIL



RESTAURANTS AND ENTERTAINMENT



HEALTH CLUBS



MUNICIPAL SERVICES AND EDUCATION



RETAIL BANKING



OUTPATIENT HEALTHCARE



THE ENTOUCH DIFFERENCE

Enterprise system providing real-time visibility with proactive account management to reduce expense and extend value

- ✓ Industry-leading technology designed for multi-site retail
- ✓ 24/7 support w/ dedicated account management
- ✓ “Real-time” scheduling and proactive response
- ✓ Reduce emergency and reactive service costs
- ✓ Drive investment timing / better CAPEX decisions
- ✓ Protect capital investment – optimize and extend asset life
- ✓ Drive down overall energy usage and utility costs
- ✓ Minimize environmental impact and reduce carbon footprint
- ✓ Advanced analytics for “proactive” predictive maintenance
- ✓ Extend CMMS value with direct integration to enhance workflow



ENTOUCH AT A GLANCE

Solution Overview

Automation Across a Multi-Site Portfolio

ENTOUCH.one

Domain Leading Technology
Platform



CLIMATE



EQUIPMENT MONITORING



LIGHTING



3rd PARTY SENSORS & BAS

Full Suite of Applications

ENTOUCH.360

Best-in-Class Professional
Services

- Mobile Installation & Commissioning
- Enterprise Data API Integration
- Rules-Driven Call Center Suite
- Services and CMMS API Integration
- Custom Dashboards and Reports
- Utility Billing and DR API Integration



SERVICES THAT DRIVE BUSINESS OUTCOMES

BUSINESS DRIVERS



HVAC CONTROL

implement policy, synchronize performance, reduce runtime and identify issues



LIGHTING/LOAD CONTROL

automate scheduling, implement daylighting for performance and cost



EQUIPMENT MONITORING

track key indicators (temp, runtime, etc) to optimize performance, reduce cost



ENERGY METERING

real time, sub-meter data for electric, gas, and water to benchmark and lower cost

OUTCOMES



STRATEGIC CAPITAL PLANNING

data-driven capital investment lowers investment and operating costs



PREDICTIVE MAINTENANCE

data-driven services increases efficiency, reduces outages, lowers cost



ENERGY & SUSTAINABILITY

real-time information enables energy reductions and cost optimization



BUSINESS INTELLIGENCE

transition to a services-enabled facility organization to drive strategic initiatives



Demonstrated Impact

Easy-to-use tool and proven commissioning process provides efficient deployment, high quality install and rapid ROI.

Sample Customer Economics	Small Facility (1,000 - 3,000 ft²)	Medium Facility (3,000 - 7,000 ft²)	Large Facility (10,000 ft²)
Initial Investment (per site)	\$2,500	\$7,000	\$30,000
ENTOUCH.360 (per site)	\$1,260	\$1,800	\$3,500
Energy Reduction	16.70%	15.70%	10.20%
Payback (years)	1.6	1.5	1.9
Contract Duration (months)	36	36	36
Site Count	600	800	450
Enterprise Saving over Term	\$3.4 Million	\$9.4 Million	\$13.5 Million

ENTOUCH saves over 195M kWh annually for our valued customers

ENTOUCH.one™

Facility Platform



HVAC CONTROL



LIGHTING CONTROL



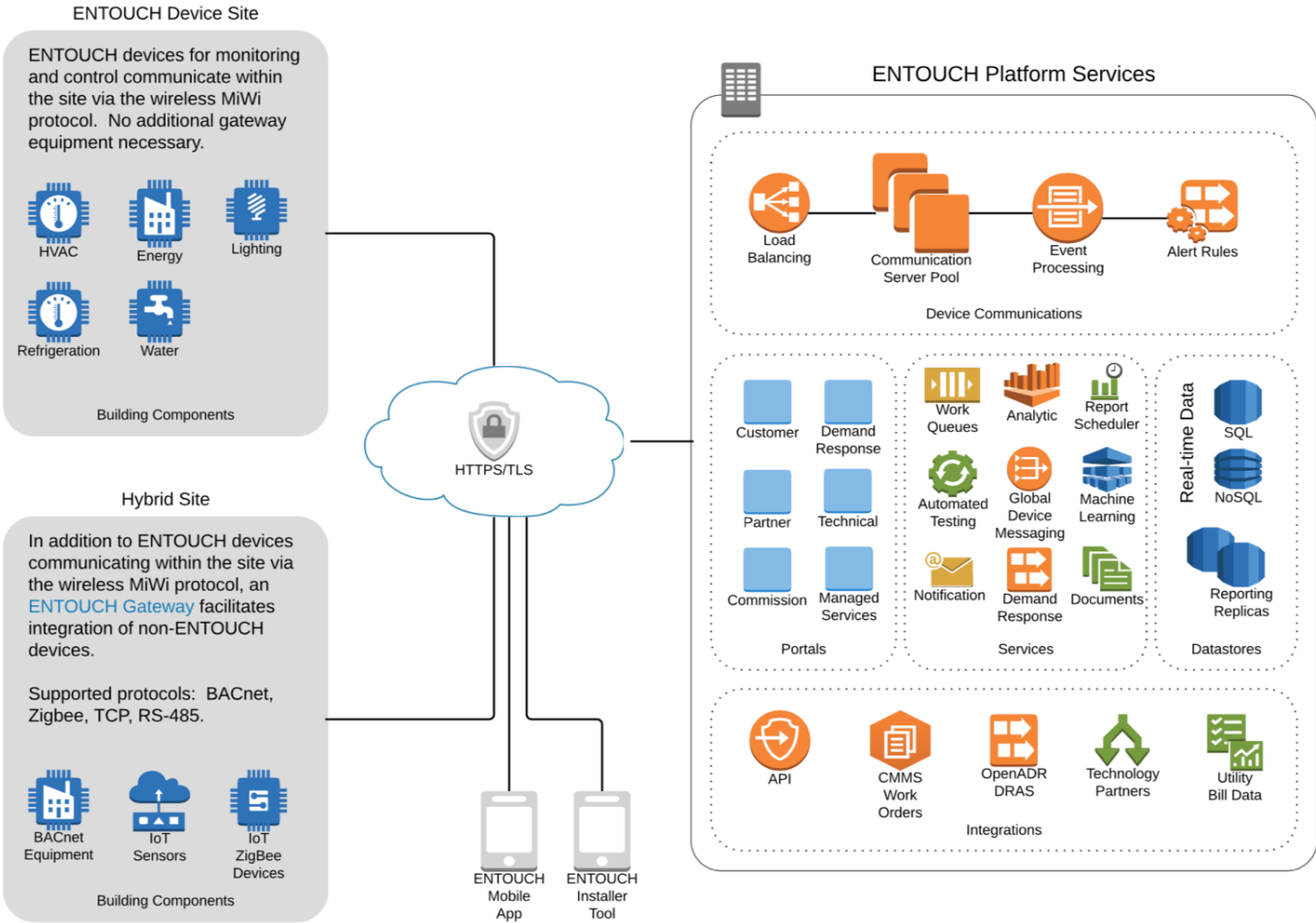
EQUIPMENT MONITORING



BACNET & LEGACY SYSTEMS



ENTOUCH SOLUTION ARCHITECTURE



DIGITAL FACILITIES MANAGEMENT

A proven platform that software-enables the deployment and lifecycle management of a large, multisite portfolio of facilities and assets

ENTOUCH.360™



Mobile Installation & Commissioning

- Proprietary deployment software:
 - Scheduling
 - Mobile workflow
 - Site documentation
 - Remote machine-learning assisted commissioning
- Reliable, high quality and lower cost deployment



Real-time Analytics & Case Management

- Site and asset performance data every 60 seconds
- Machine-learning assisted, multi-variate alerting of equipment performance issues
- Case management system to track resolution
- Direct integration into leading CRM/CMMS systems



Lifecycle Performance Data and Automation

- Asset data analyzed and tracked over equipment life
- Insights drive predictive maintenance and asset portfolio management
- Performance data ties into efficient capital replacement planning
- Advanced notice of pending equipment failure

Highly Scalable Platform

SCALABLE SAAS PLATFORM



ENTOUCH deployed 1,600+ locations in 20 weeks, using our software to manage a network of 3rd party technicians and deliver high-quality installation across a national footprint



BGIS uses the ENTOUCH.360 SAAS Platform to deploy IoT services in multiple major financial services clients for both retrofit (wireless controls) and complex takeover (gateway integration) applications



CUSTOMER POLICY & ENTERPRISE COMMISSIONING

- Policy Profiles
- Settings
- Schedules
- Facility Setup
- Installation Scheduling
- Installation Status
- QC Report
- Installation Report

The screenshot displays the ENTOUCH software interface for commissioning. It features a navigation menu at the top with options like 'Customer Setup', 'Facility Setup', 'Installation', 'Report', and 'Account'. The main content area is divided into several panels:

- Installation Panel:** Shows a list of customer and facility information.

Customer	Facility
FMI	0441 Burge
FMI	1035 KFC -
ALDO	3113 Ottaw
24 Hour Fitness	491 Tigard
24 Hour Fitness	955 Portlan
FMI	0108 Pizza
KinderCare	301187 Sar
Bank of the West	Des Moines
ALDO	1121 Diepp
KinderCare	300462 San Jose CA
ALDO	3507 Gurnee IL
24 Hour Fitness	849 Beaverton OR
- Review Panel:** Displays a 'Review' screen for '24 Hour Fitness - 640 Pelham Manor'. It shows a list of zones and devices with their configurations.

Device	Configuration	Status
Gateway 1 - Tech Room	Master Gateway	✓
RTU11 Mind body	Main Workout Area 2 - Supply Air (S2) Only	⊘
RTU7 Cardio	Main Workout Area 1 - Supply Air (S2) Only	⊘
RTU8 Functional	Main Workout Area 1 - Supply Air (S2) Only	⊘
RTU9 Freeweight	Main Workout Area 2 - Supply Air (S2) Only	⊘
Gateway 2 - Telco Rm	Master Gateway	✓
- Table:** A table at the bottom of the Review panel lists device configurations.

Device	Configuration	Gas/Fossil	N/A	07.37 / 06.06.0
RTU9 Cardio	Conventional	Gas/Fossil	N/A	07.37 / 06.06.0
RTU11 Functional Training	Conventional	Gas/Fossil	N/A	07.37 / 06.06.0



MOBILE COMMISSIONING

The application interface is divided into several functional areas:

- Devices List:** A vertical list of devices including RTU4 Stock 1 (yk218), RTU2 Sales (hq042), RTU1 Office (uq876), RTU3 Warehouse (wo280), LCM f (F810370C00000010), RSM f (f810370d0000102a), and MDP (F8103709000051DE).
- Controller View:** Shows a 'Controller' for 'RTU3 Warehouse' with a 'Remote Sensor' section containing details like Mac (f810370d0000102a), S/N (1114RTSM00007), and Name (RSM f). It also lists sensors: Sensor 1, Hot Water, Warehouse Temp, and Bay Door.
- Reports View:** Displays completion status for Facility (1/0/0), Devices (7/0/0), Issues (2/0/0), and Units (2/0/0). Lists include RTU4 Stock 1, RTU2 Sales, RTU1 Office, RTU3 Warehouse, MDP, RSM f, and LCM f.
- Light/Load View:** Shows '# of External Contractor Boxes' set to 1 and lists various facility components like Lights, Is Exte, and Units with their respective completion statuses.
- Facility Details View:** Includes 'Installation Notes', 'Recommendations', '# of Supply Air & Duct Sensors' (4), '# of contractor boxes' (4), and a note: 'Provide a drawing of the location noting controller locations, remote room temperature sensor locations, ducting, return air intact, and apply air vents. Make a copy of the location fire escape plan or location layout if possible.' It also has fields for 'Location Drawing', 'Additional (if Needed)', 'Front Of Building*', and 'Facility Hours*'.



MANAGED SERVICE

- Alert Queue
- Workflow Queue
- Remote Triage
- Case Management

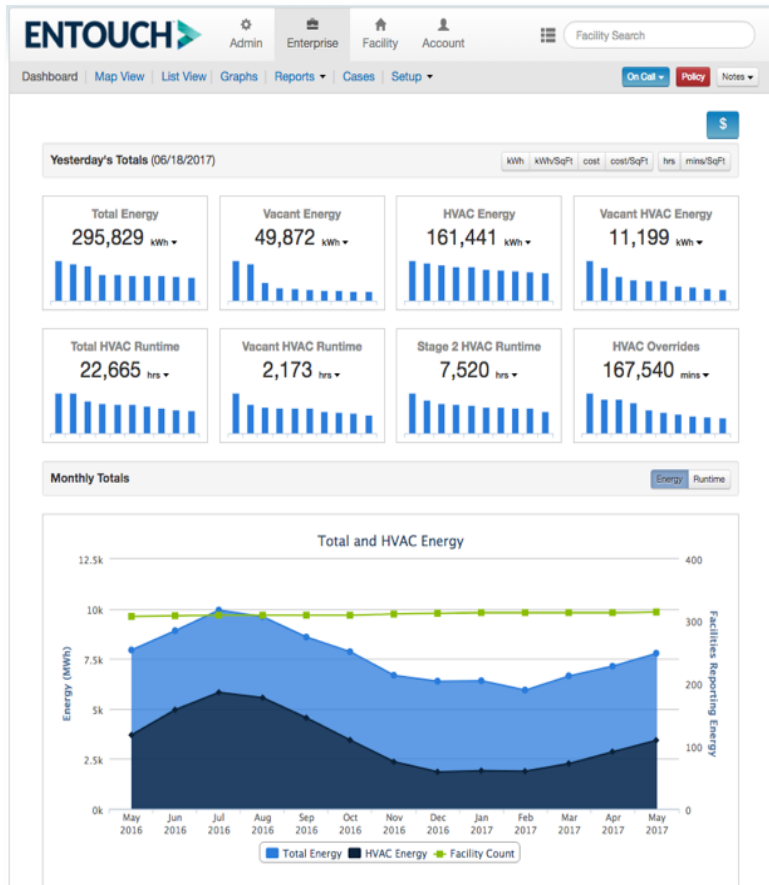
The screenshot displays a web-based interface for managing services. It is divided into several overlapping panels:

- Managed Services: Alert Queue:** Shows a list of alerts with columns for Customer, Facility, and Device Name. A refresh rate of 1 min is set. A list of units is visible, including ChuckECh, JCPenney, TGI Fridays, and McCoy's.
- Managed Services: Facility A:** A sub-panel for a specific facility, showing a refresh rate of manual and a list of units with a red alert for RTU1 Sales.
- Managed Services: Alert Detail:** A detailed view of an alert. It shows the current state as "active" with a "Last Asserted" time of 3 hours ago. The alert priority is "Emergency". The alert status is "New". A "Comment" field and an "Update" button are present.
- HVAC Energy Usage:** A line graph showing energy usage for RTU 1 and 2 over time.
- Active Relays:** A bar chart showing the status of various relays (Y3 Humidity, G Fan, W2 Heat 2, W1 Heat 1, Y2 Cool 2, Y1 Cool 1) over time.
- Alert History:** A list of recent alerts, including one asserted on 2015-10-15 at 18:13:01 and one cleared on 2015-10-14 at 20:58:03.



ENTERPRISE DASHBOARDS

Real-time Site-level Data

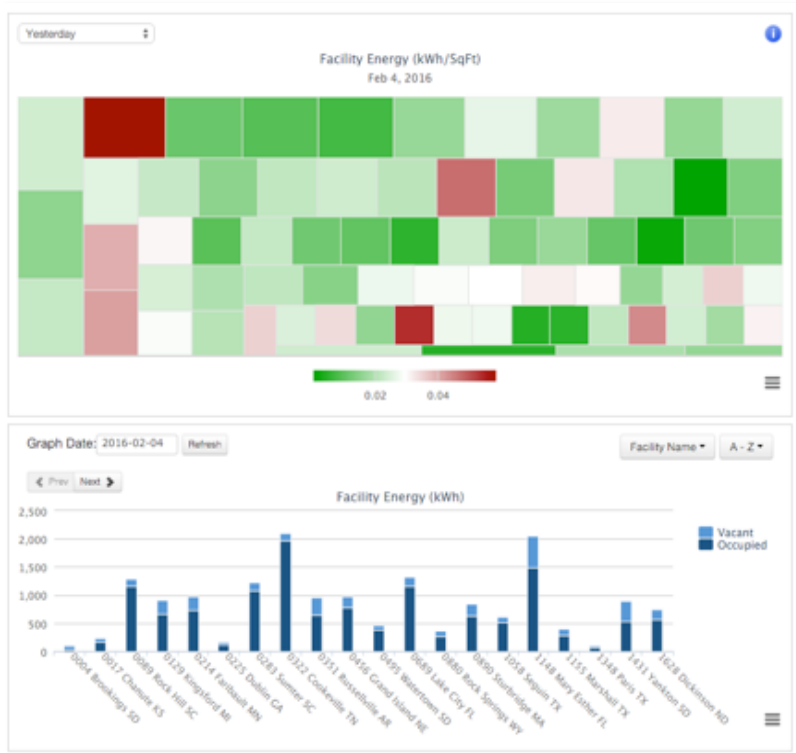


Integration to Utility Bill Data



DATA-DRIVEN FACILITIES MANAGEMENT

Energy Intensity Dashboards

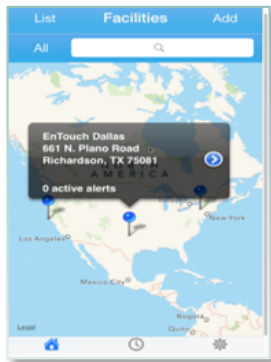


Real-time Analytics

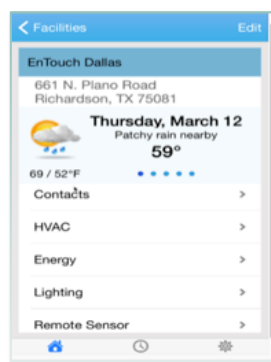


INFORMATION AT YOUR FINGERTIPS

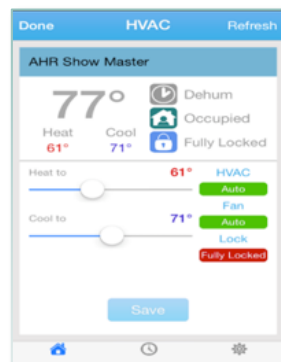
Map View



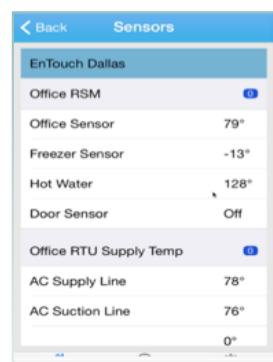
List View



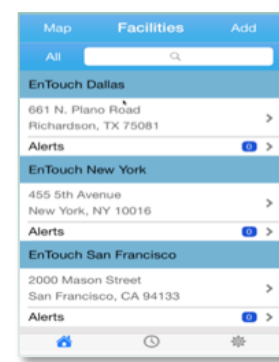
HVAC Control



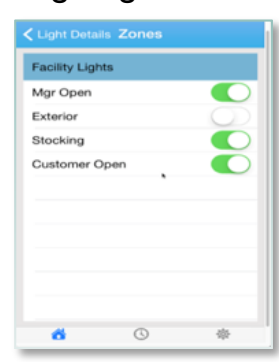
Sensors



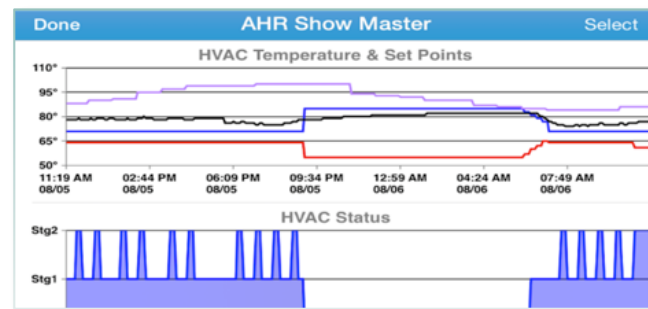
Site-Level View



Lighting Control

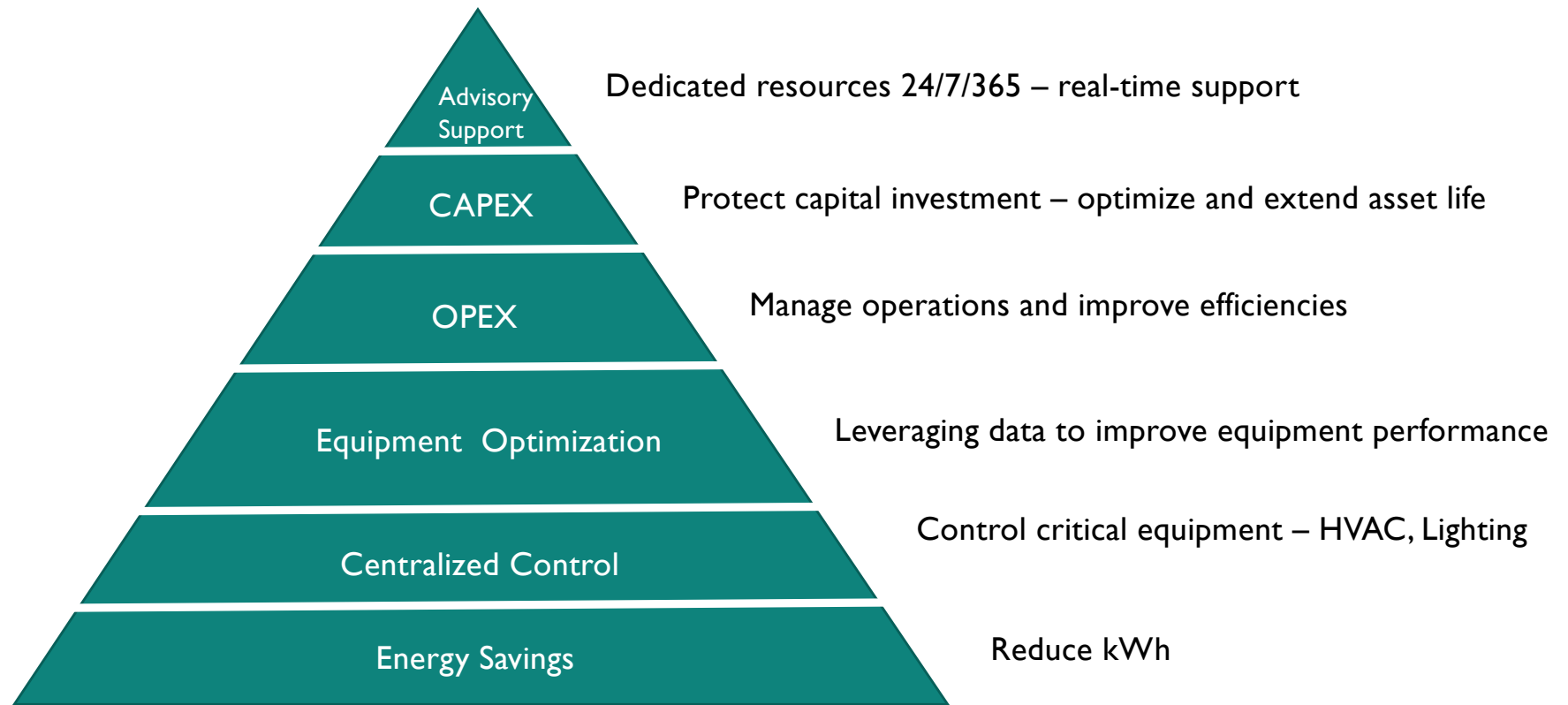


Analytics



ENTOUCH Energy & Facility Optimization Value Proposition

Enterprise system designed for multi-site retail facilities management



BENEFITS

Full-time Monitoring

- 24/7/365 monitoring service allows for quick identification and resolution of issues
- The equipment will provide real-time alerts for poor performing HVAC units
- The ability to remotely address issues
- Facilitates verification that HVAC units are functioning correctly after Preventative Maintenance.

Centralized Control

- Ensure guest comfort in each center
- Reduces environmental impact
- Lower energy costs
- Identifies potential issues and proactively takes action to repair them – minimizing center impact
- Saves managers a significant time previously spent on HVAC assets; less hot/cold calls, less time spent escalating HVAC issues and following up with repair & maintenance
- Corporate-level dashboard provides real-time visibility into energy usage and creates analytics on how, when and where energy is being used.

Real-time Data

- Complete transparency to see when systems are failing so proactive service can occur reducing the number of emergency service calls
- Better predictive intelligence means fewer instances of “run to fail”
- Reduces the number of times a technician needs to go to a center for repairs
- Equipment data enhances repair time and productivity of onsite technician





Gateway

- 4G Cellular Backhaul with patent pending Data optimization
- WiFi and Ethernet device connectivity
- Bluetooth capable
- Zigbee capable
- Embedded BACnet/IP driver
- Legacy EMS integration
- Template-based device mapping
- Extend ENTOUCH features and capabilities to non-ENTOUCH devices



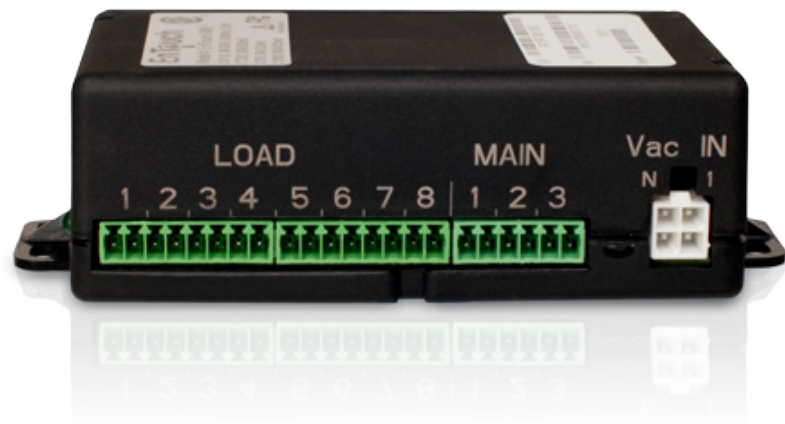
HVAC Control

- Touchscreen Display
- Flexible Branding
- Security Modes Limit User Adjustment
- Sophisticated, multi-stage HVAC Controls
- Advanced Energy algorithms
 - Peak Management
 - Compressor Optimization
- Two External Temperature Sensors
- One Analog Sensor
- One Analog Output for VAV/VFD/Valve control
- Six Digital Outputs
- Economizer Controls
- OpenADR certified and Title 24



Universal Sensor Module

- Four Universal Inputs
 - Temperature
 - Doors
 - Smoke Detectors
 - CO2 sensors
- One Pulse Input
 - Water monitoring
 - Gas monitoring



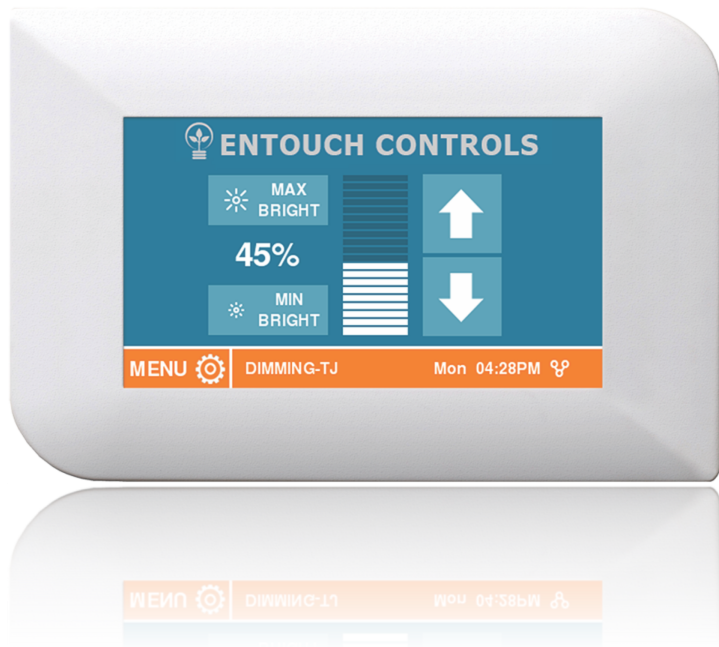
Energy Monitors

- Utility grade metering device
- Input for monitoring total facility load
- Input for monitoring up to 8 loads
 - HVAC
 - Lighting
 - Any electrical load
- Reports and tracks building voltage
- Reports and tracks energy consumption
- Reports and track Power Factor



Lighting and Load Control

- Four configurable outputs
- Remote web and app control
- 365 day scheduling with sunrise and sunset adjustment
- Local over-ride and status indication
- Supports external motion and photo sensors
- Supports external over-ride switches
- Title 24



Dimming and Lighting Control

- Touchscreen Display
- Flexible Branding
- 365-day scheduling with sunrise and sunset adjustment
- Six schedulable Outputs
- Analog Output for dimming control
- Remote web and app control
- Local over-ride and status indication
- Supports external motion and photo sensors
- Supports daylight harvesting sensor
- Supports external over-ride switches
- OpenADR certified and Title 24

OPEN DISCUSSION



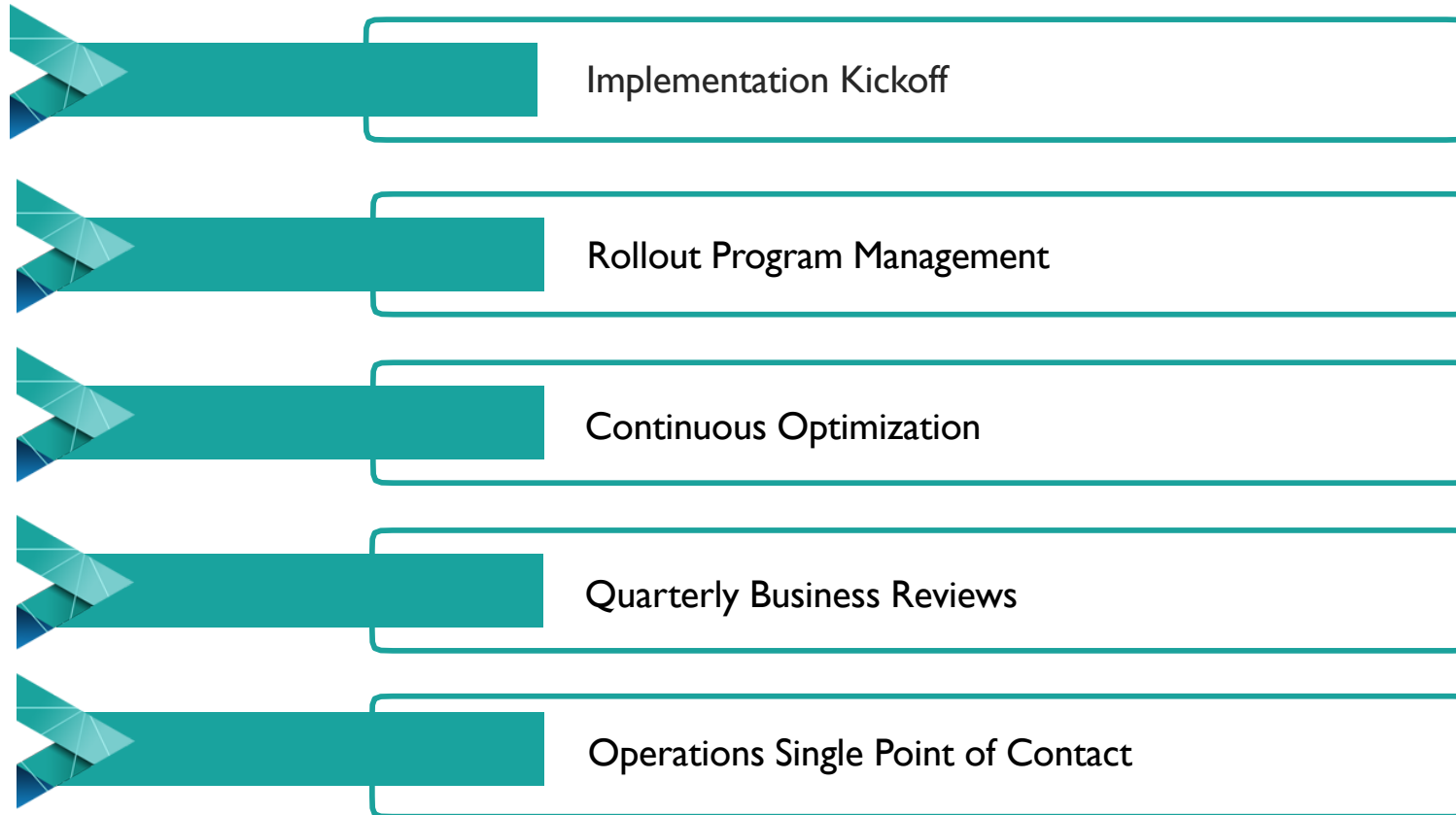


entouchcontrols.com

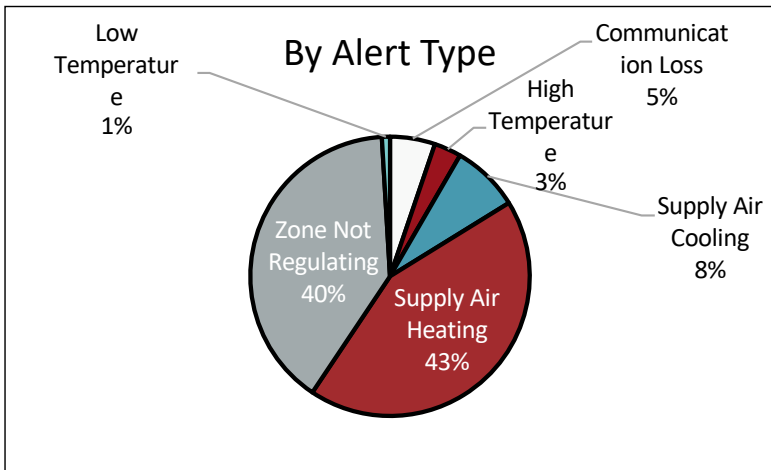
 [@entouchcontrols](https://twitter.com/entouchcontrols)

ENTOUCH ™
SMART BUILDING SOLUTIONS

ACCOUNT MANAGEMENT

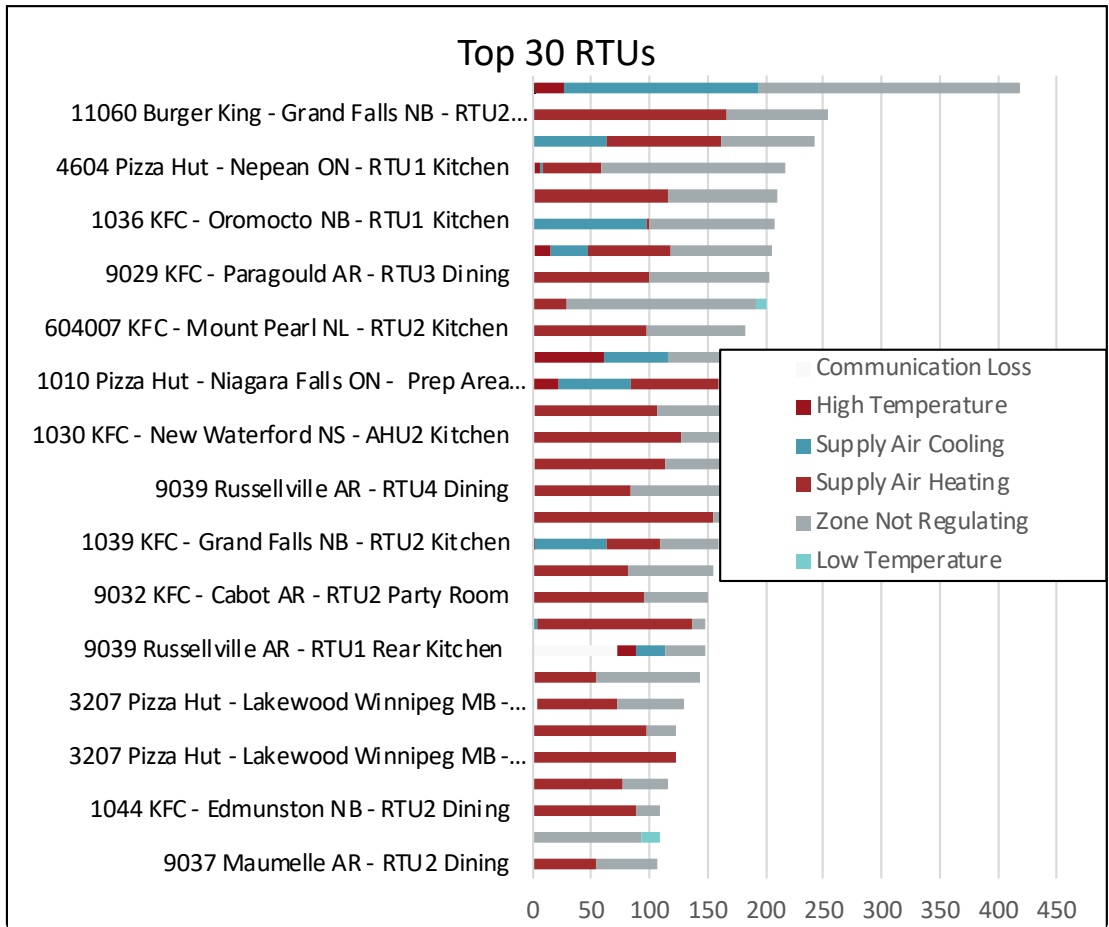


ALERT BREAKDOWN - HVAC



49% of Alerts
From 30 Locations

43% of Alerts
Supply Air Heating

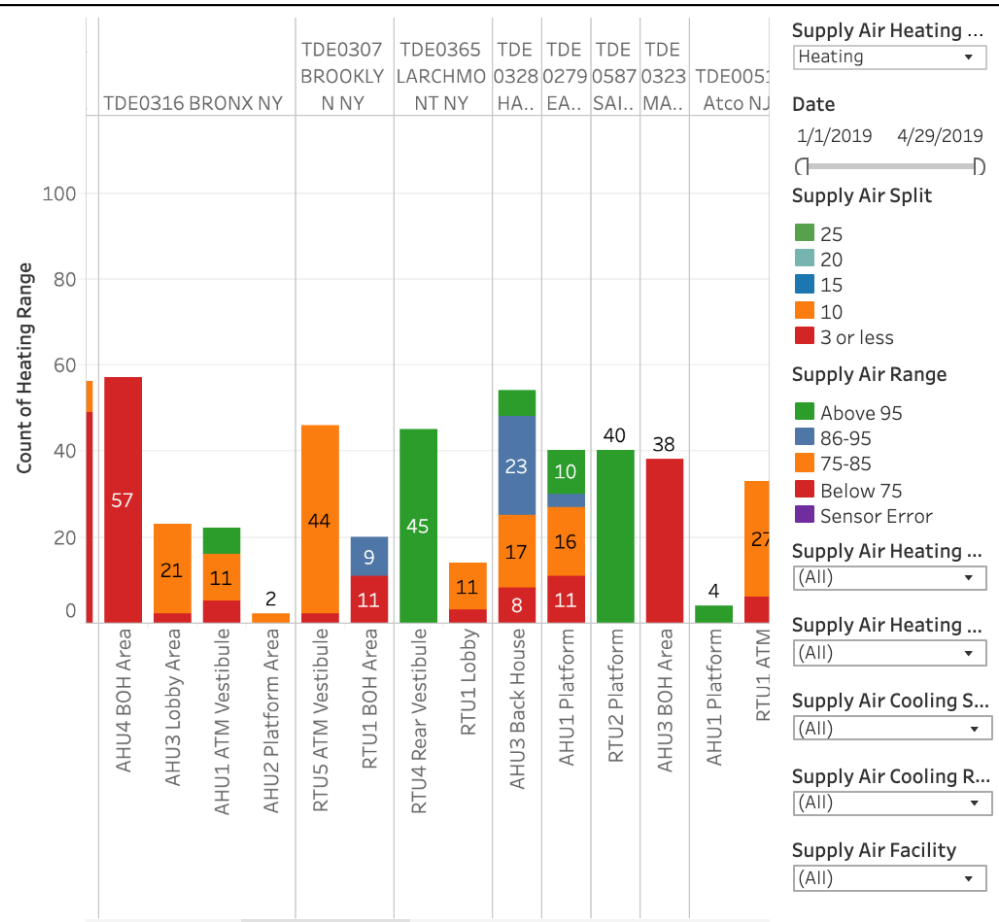


UNDERSTANDING USER BEHAVIOR



SUPPLY AIR ANALYSIS

Supply Air Facili..	Supply Air ..	25	20	15	10	3 or le..
TDE0304 STATEN ISLAND NY	AHU3 BOH Area			1		
	AHU4 ATM Ves..			1	14	36
	AHU1 Platfor..				1	55
TDE0316 BRONX NY	AHU4 BOH Area					57
	AHU1 ATM Ves..		18		5	
	AHU3 Lobby Ar..			1	20	2
	AHU2 Platfor..					2
TDE0365 LARCHMONT NY	RTU4 Rear Ves..	2				43
	RTU1 Lobby				11	3
	RTU2 Back Of ..					1
TDE0328 HAUPPAU..	AHU3 Back Ho..	20	15	10	6	3
TDE0587 SAINT JAMES NY	RTU2 Platform	25		1		16
	AHU3 ATM Ves..	2				
TDE0279 EAST NOR..	AHU1 Platform	12	2	1	22	3
TDE0323 MAMARONECK NY	AHU3 BOH Area				4	35
	AHU4 ATM Ves..	1				
TDE0051 Atco NJ	RTU1 ATM					28
TDG0686 NEW YORK NY	AHU3 ATM Ves..			3	6	15

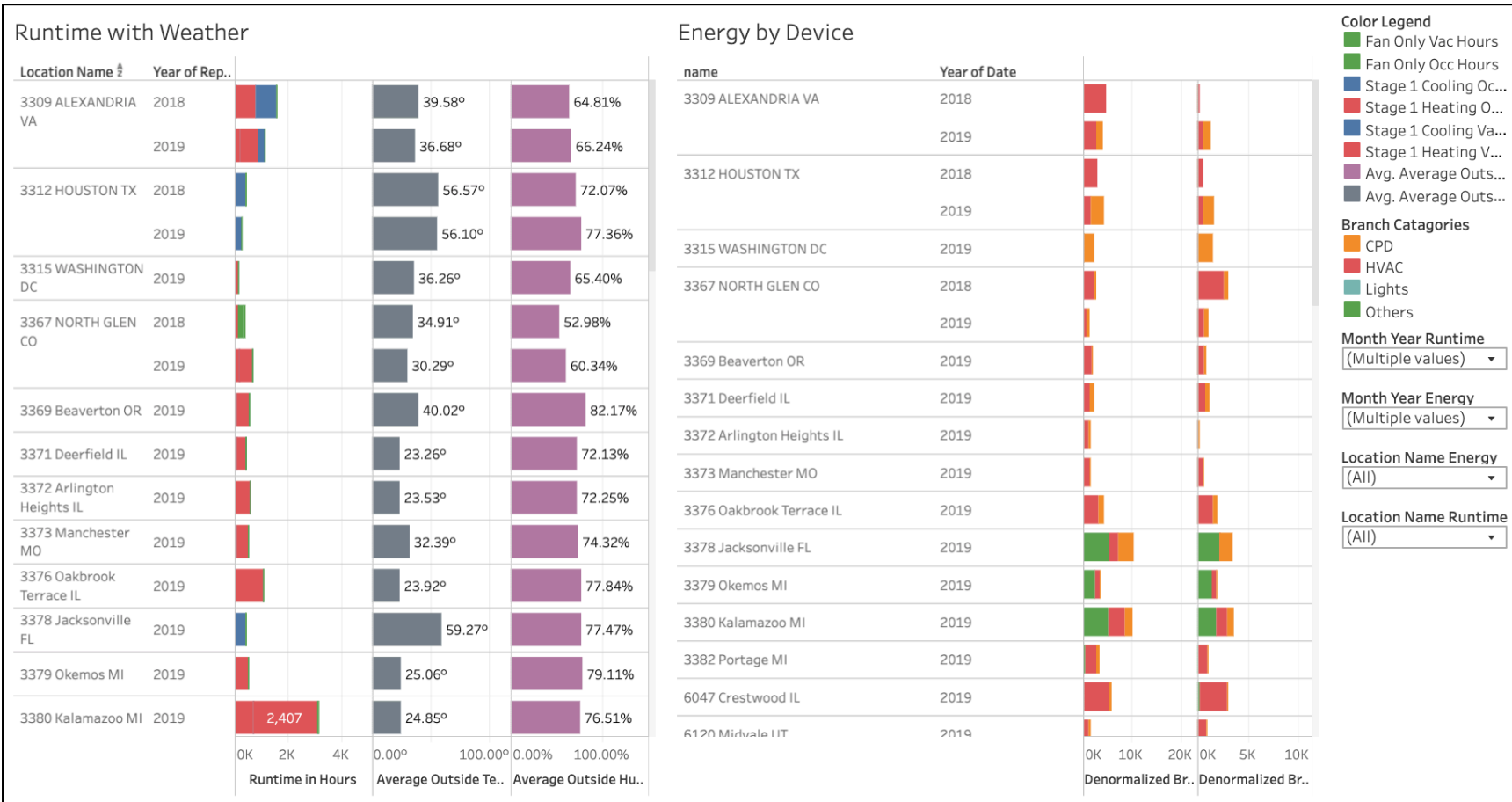


Supply Air Split- Difference between the measured air from the delivered air duct and the air currently in the zone.

Supply Air Range - The measured air temperature delivered from the duct.



HVAC RUNTIME COMPARISON

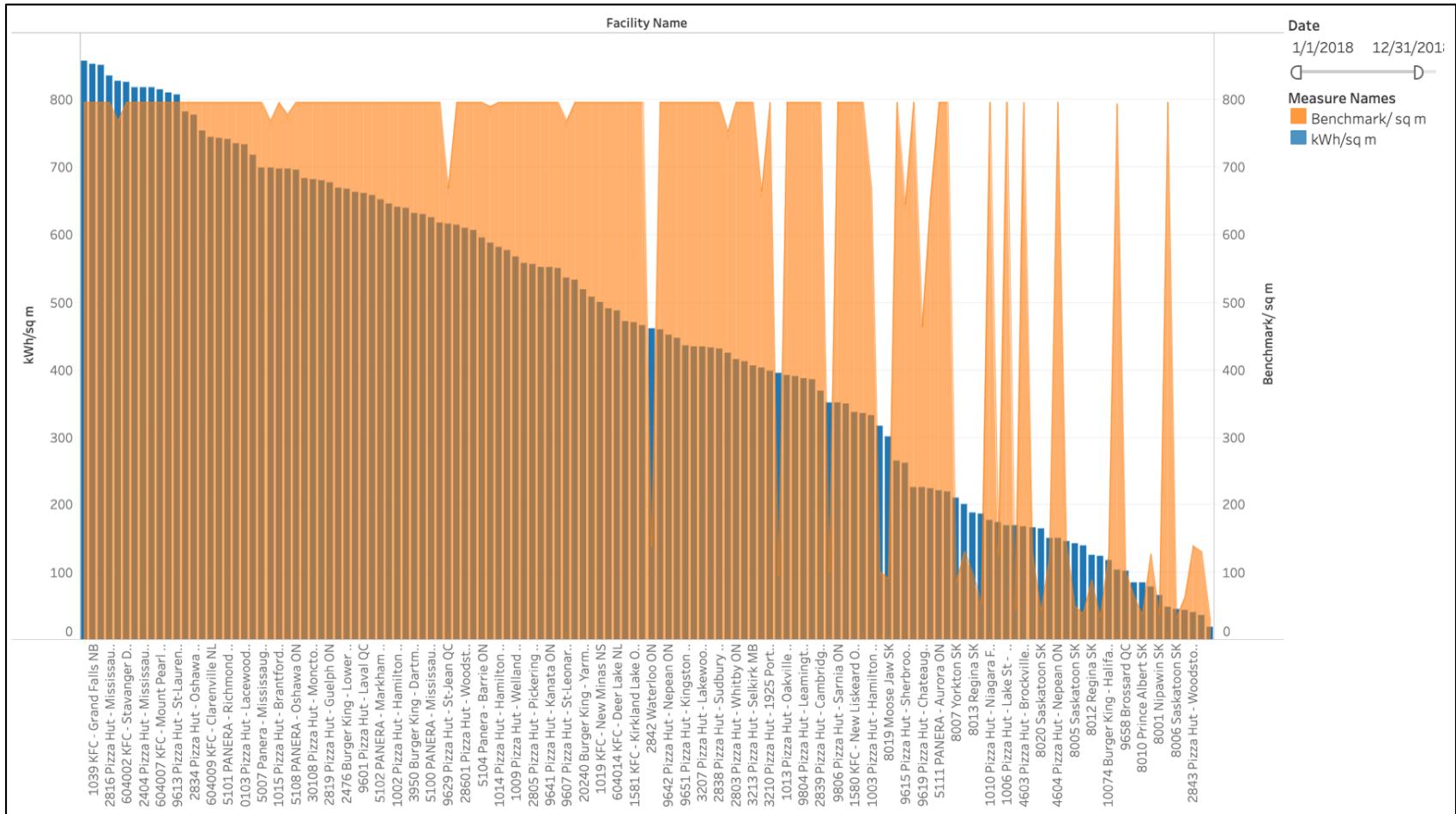


COST OF INACTION – HVAC EFFICIENCY RANKINGS

Location Device Name	Zone Temp (while Cooling)	Override Count	Avg. kW While Cooling	Cooling Runtime Hours	Adjusted Cost to Run Unit on Cool (\$.12 = Cost/kWh) (copy 2)	Override Count 0 385
Grand Total	72°	46,888	3.93	167,271	\$28,918.63	<input type="text" value="\$0.12"/>
1574 Miami FL RTU3 Production ..	70°	4	6.36	1,113	\$794.30	State: (All)
0772 Miami FL RTU4 Shipping	73°	0	5.95	1,523	\$703.55	Report Date: 1/7/2019 3/31/2019
1567 Marietta GA RTU3 Retail	74°	14	9.45	580	\$653.47	Supply Air Zone Temp Split: -80 100
2306 Phoenix AZ RTU1 Office Se..	75°	23	3.67	1,618	\$550.42	Avg Zone Temp (while Coo...: -126° 100°
1275 Daytona Beach FL RTU2 Se..	73°	13	9.61	447	\$530.21	
2693 La Jolla CA RTU1 Shipping 1	74°	49	12.32	616	\$529.05	
0807 Fort Worth TX RTU1 Back ..	73°	43	4.58	766	\$379.34	
1111 Fairfax VA AHU2 Shipping	77°	18	4.62	1,116	\$376.13	
1815 Washington DC AHU2 Stor..	73°	8	14.33	195	\$301.83	
1483 Seaside CA RTU1 Retail	86°	61	2.99	892	\$293.83	
1008 Long Beach CA HPU1 Comp..	74°	2	2.83	808	\$283.69	
1275 Daytona Beach FL RTU1 Pr..	73°	8	6.58	395	\$267.81	
0772 Miami FL RTU5 Self Service	76°	0	1.43	1,703	\$244.93	
1546 Fort Lauderdale FL RTU3 C..	74°	7	2.39	925	\$241.36	
2306 Phoenix AZ RTU5 Retail	74°	20	5.01	613	\$219.33	
1075 West Palm Beach FL RTU2 ..	73°	12	4.69	572	\$217.63	
0860 Austin TX RTU3 Production	70°	249	8.18	217	\$211.63	
0676 Phoenix AZ RTU3 Producti..	73°	88	4.99	639	\$205.21	
0652 Phoenix AZ RTU2 Office	73°	5	4.95	634	\$201.37	
0738 Memphis TN RTU7 Prod 4	73°	15	2.02	1,121	\$199.49	
2306 Phoenix AZ RTU4 Compute..	74°	8	4.74	690	\$198.65	
3703 Burbank CA RTU6 Retail	74°	0	4.59	410	\$196.49	
1654 San Antonio TX RTU2 Self ..	72°	12	4.16	375	\$193.22	
0535 Tualatin OR RTU2 Producti..	72°	2	9.91	250	\$178.62	
1555 Hollywood FL RTU2 Produc	72°	0	2.22	974	\$172.21	



ENERGY BENCHMARKING AGAINST INDUSTRY



EXECUTIVE SUMMARY

Partner to provide as much support as possible to Facilities Management Team

Plan and execute 20XX rollout to increase energy saving for program and provide consistent platform

Follow through on PM evaluation providing after analysis

Provide cases for top 30 alert locations

Begin program of tracking energy savings for program in Customer Portal

Provide Schedule / Set Point report to ensure settings are correct

Top 30 units account for 49% of the total HVAC alerts.

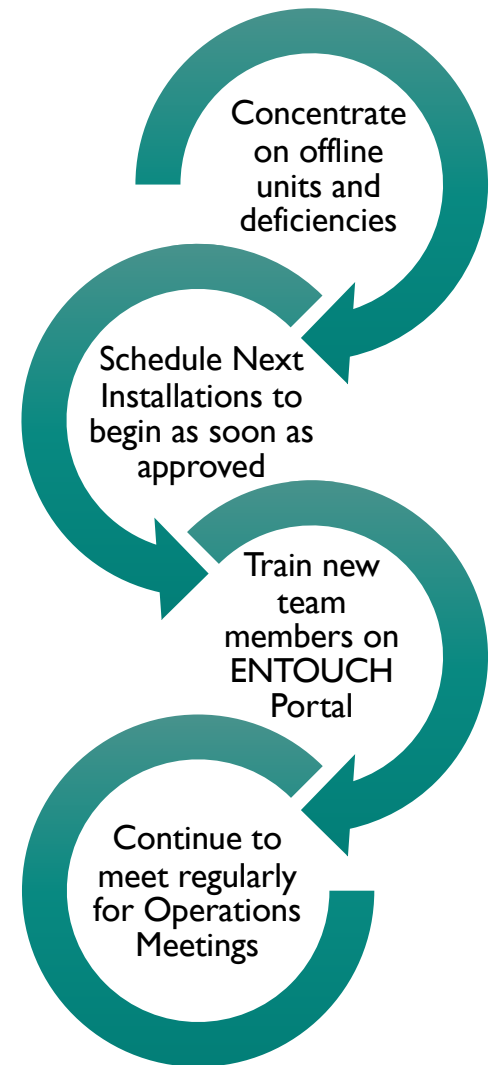
Top 30 units account for 72% of the total RSM alerts. This number remains high since last QBR

The greatest number of cases are for settings adjustment.

ENTOUCH is resolving 82% of cases requiring research or action without pass-through to FM

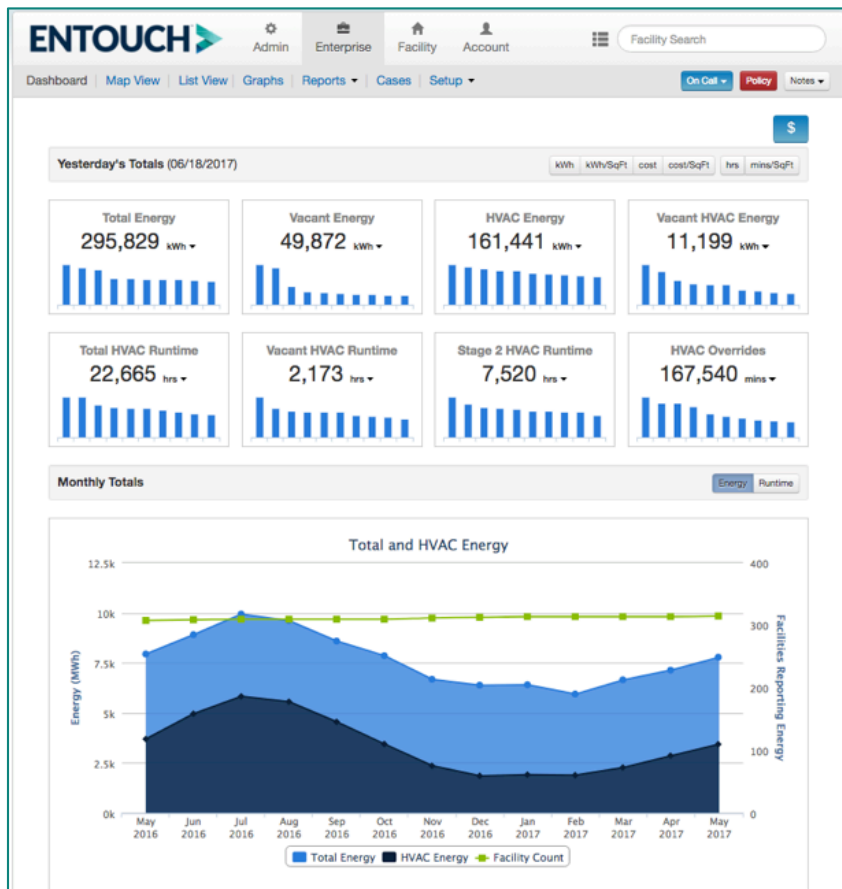
Vacancy Runtime has increased between 2018 and 2019

Will continue to address AR Balance and AR process



ENTERPRISE DASHBOARDS

Real-time Data from Stores



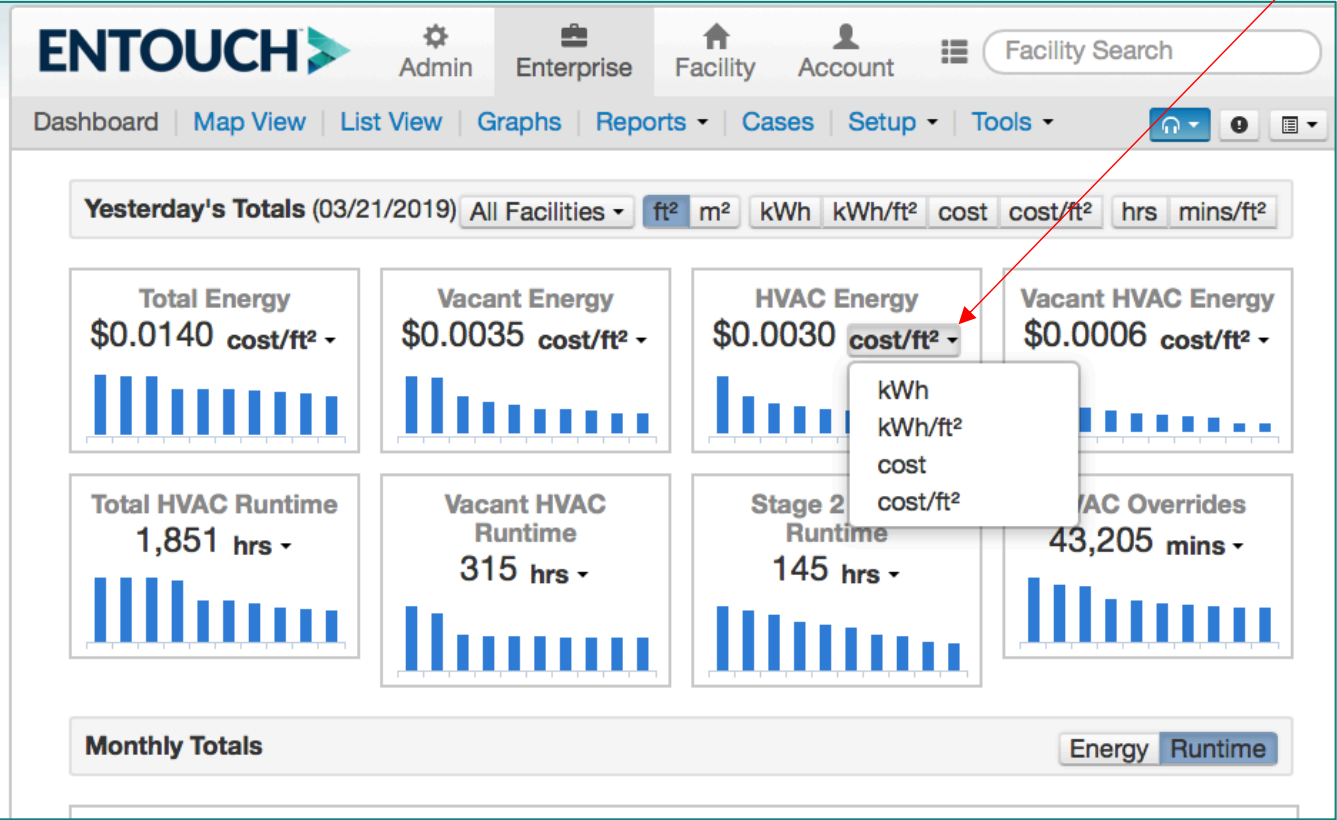
Integration to Utility Bill Data



ENTERPRISE DASHBOARDS

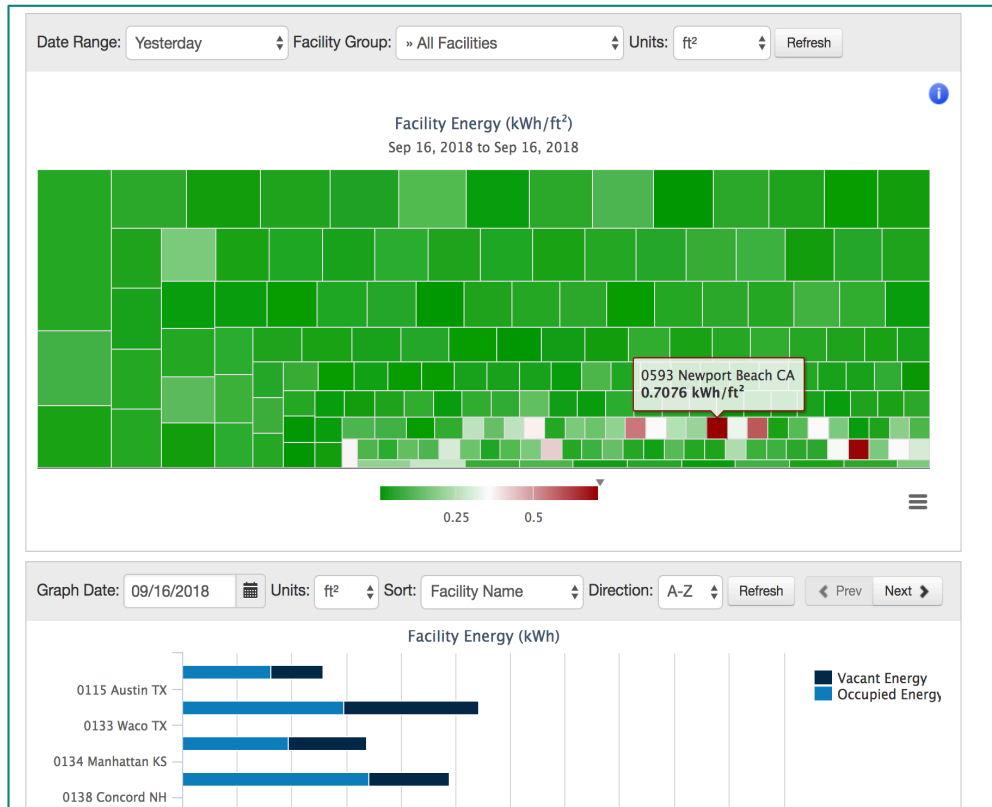
Track Your "Worst" Offenders

Track usage down to square foot level

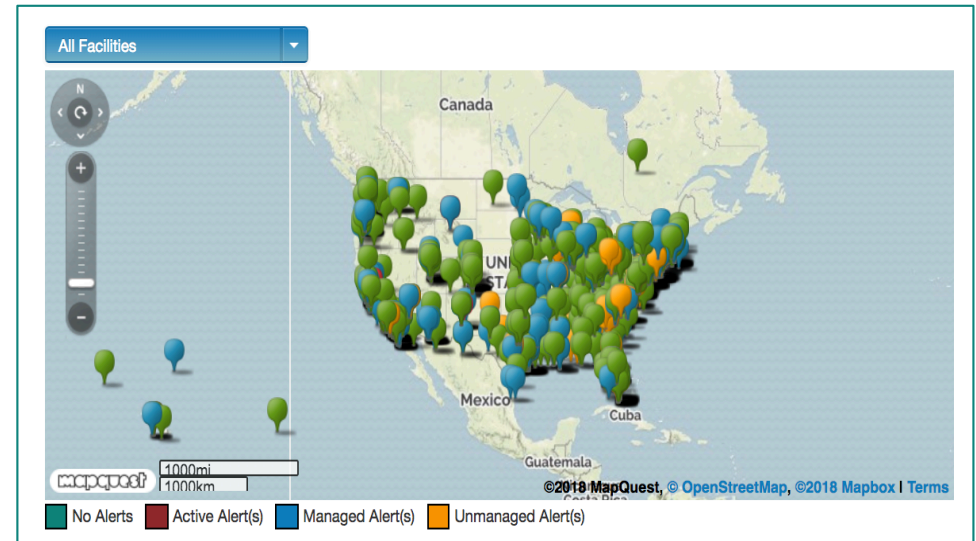


ENTERPRISE DASHBOARDS

Energy Intensity Graphing by Grouping

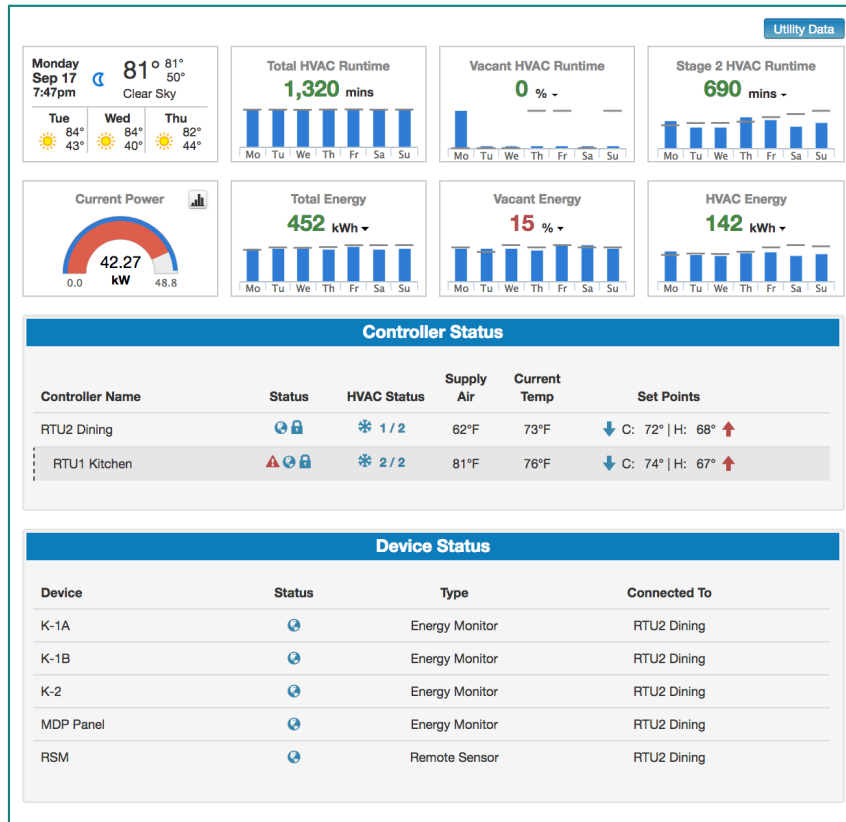


Store-Wide Alert Visibility

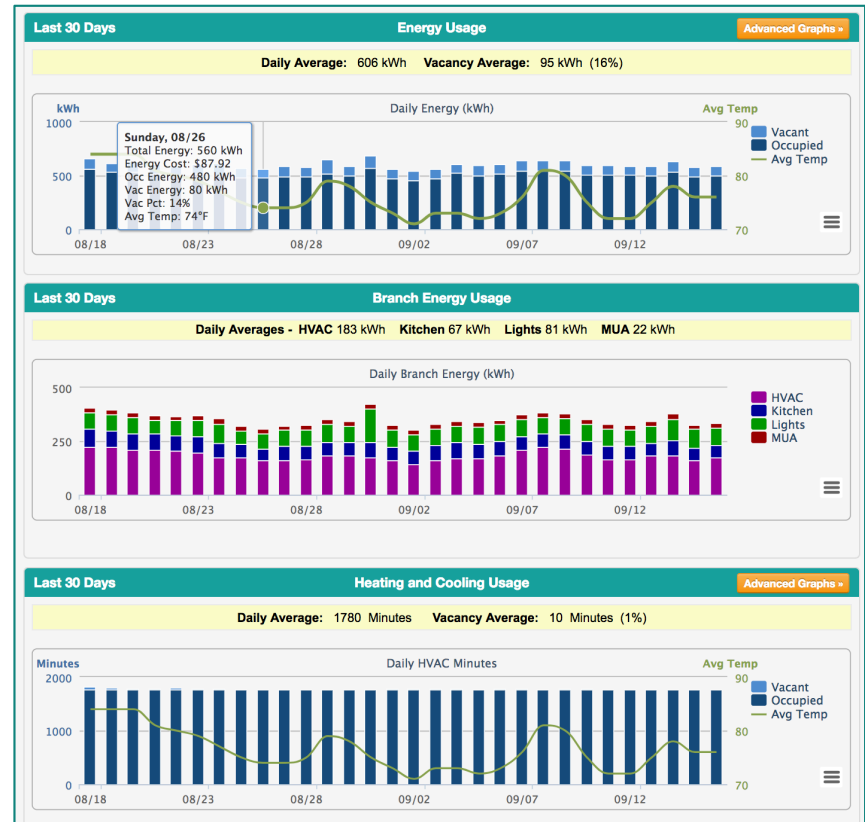


FACILITY LEVEL INFORMATION

Store Dashboard

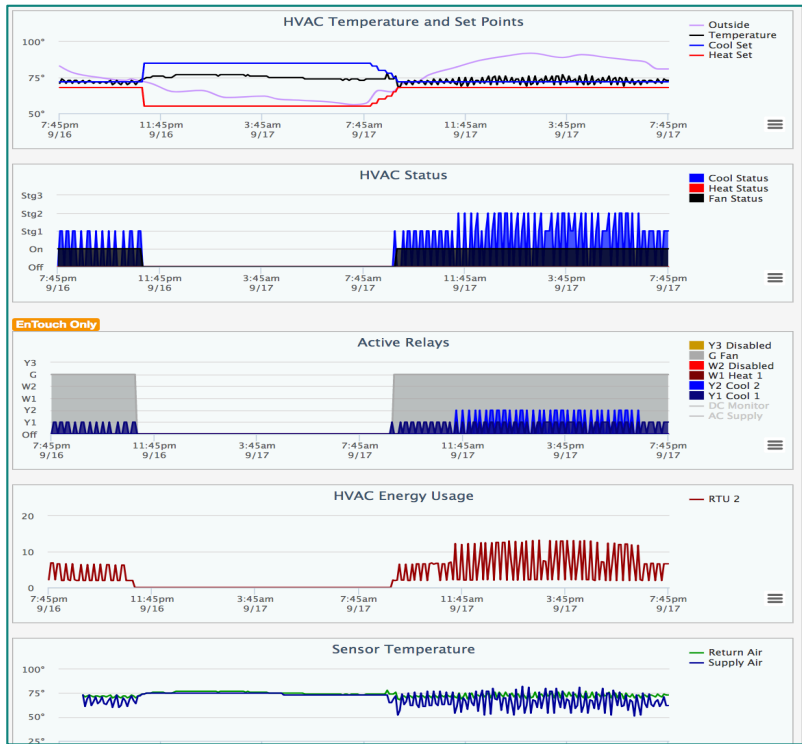


Daily Energy Trend Graphs

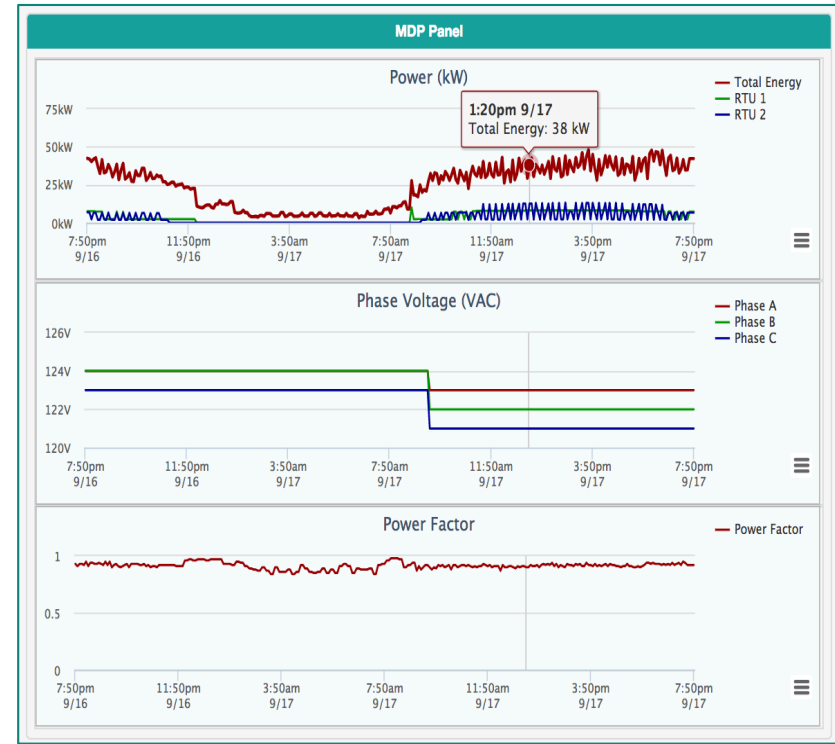


REAL-TIME ANALYSIS

HVAC Unit-Level Trend Data



Daily Energy Trend Data



ENTOUCH.360™ MANAGED SERVICES

- Alert Queue
- Workflow Queue
- Remote Triage
- Case Management

The screenshot displays the ENTOUCH.360 Managed Services interface, showing a hierarchy of views: Alert Queue, Facility Alerts, and Alert Detail.

Managed Services: Alert Queue

- Refresh Rate: 1 min
- Queue: New
- Customer list: ChuckECh, JCPenney, JCPenney, JCPenney, ChuckECh, ChuckECh, ChuckECh, TGI Fridays, TGI Fridays, McCoy's
- Unit: RTU
- Buttons: Assign, Comm

Managed Services: Facility Alerts

- Refresh
- All
- Unit: RTU
- Buttons: Assign, Comm

Managed Services: Alert Detail

Confirm 2nd stage is engaged and check supply air temperature.

Current State: active
Last Asserted: 3 hours ago
Asserted: 3 time(s)

Alert Priority: Emergency

Alert Status: New

Assigned
Auto-Closed Case
Open Salesforce Case
Resolved

Add Comment:

Update

HVAC Energy Usage (Line graph for RTU 1 and 2)

Active Relays (Stacked bar chart for Y3 Humidity, G Fan, W2 Heat 2, W1 Heat 1, Y2 Cool 2, Y1 Cool 1)

48 Hrs 1 | Week 3 | Month 3 | All 3

Asserted 1 time(s)
Alert Asserted on 2015-10-15 18:13:01 (3 hours ago)

Cleared
Alert Cleared on 2015-10-14 20:58:03 (a day ago)

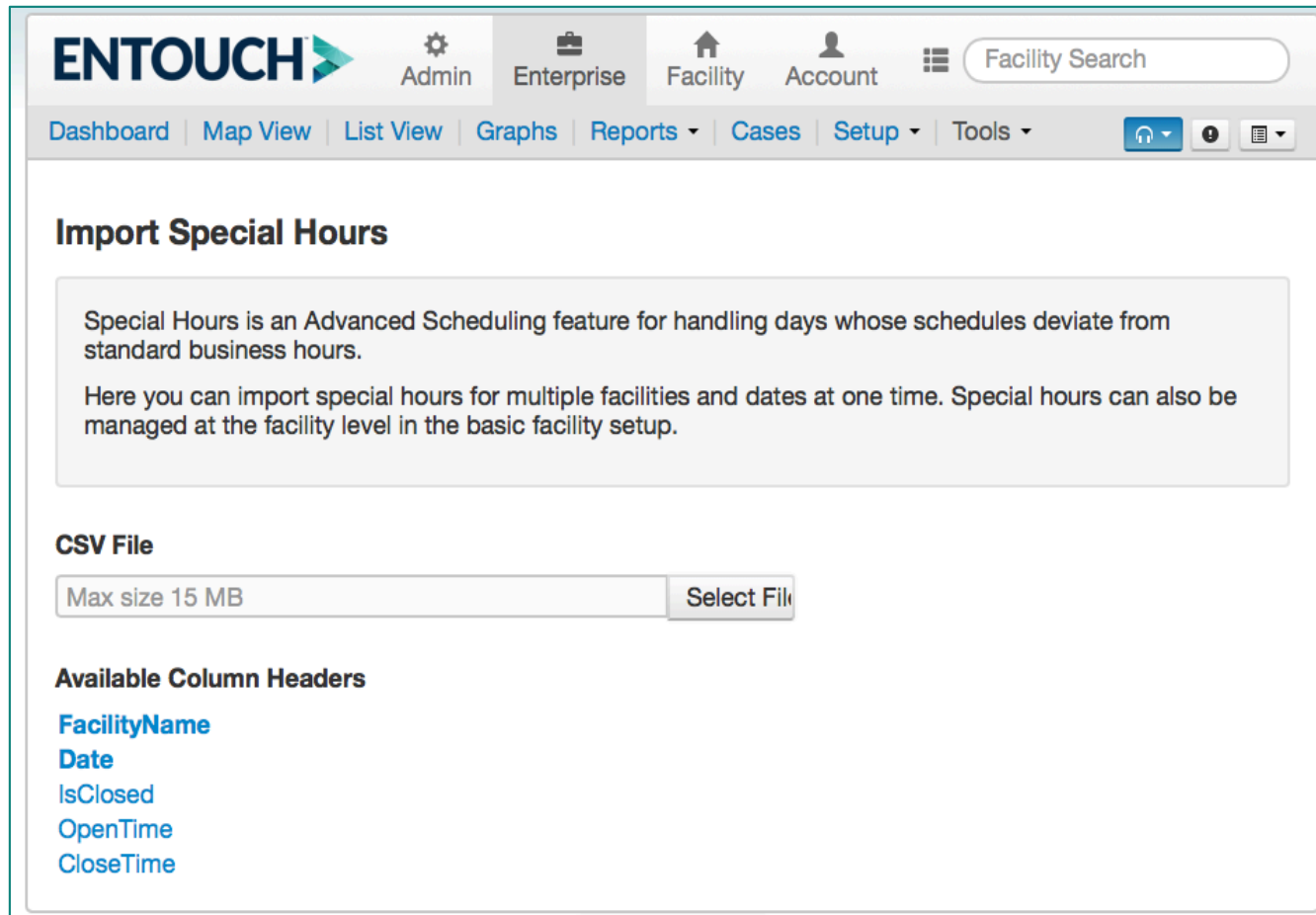


GLOBAL CHANGES

The screenshot displays the ENTOUCH web application interface. At the top left is the ENTOUCH logo. The navigation bar includes links for Admin, Enterprise, Facility, and Account, along with a Facility Search input field. Below this is a secondary navigation bar with links for Dashboard, Map View, List View, Graphs, Reports, Cases, Setup, and Tools. The main content area is titled "Global Change" and contains a descriptive text box: "Use this tool to make changes across all (or some) of your facilities and devices." Below this is a list of options: HVAC Settings (selected), HVAC Schedules, HVAC Events, HVAC Alerts, Energy Alerts, and Remote Sensor Alerts. The "HVAC Settings" section is expanded, showing the title "HVAC Settings" with a temperature unit selector (°F/°C) and the description "Change various settings for zone controllers you select." A "Begin" button with a right-pointing arrow is located at the bottom right of this section.



ENTERPRISE-WIDE SCHEDULING



The screenshot displays the ENTOUCH web application interface. At the top left is the ENTOUCH logo. The navigation bar includes links for Admin, Enterprise, Facility, and Account, along with a Facility Search input field. Below the navigation bar is a secondary menu with links for Dashboard, Map View, List View, Graphs, Reports, Cases, Setup, and Tools. The main content area is titled 'Import Special Hours' and contains a text box explaining that Special Hours is an Advanced Scheduling feature for handling days whose schedules deviate from standard business hours. It also states that special hours can be imported for multiple facilities and dates at one time, and can be managed at the facility level in the basic facility setup. Below this text is a 'CSV File' section with a text input field labeled 'Max size 15 MB' and a 'Select File' button. At the bottom, there is a section titled 'Available Column Headers' listing FacilityName, Date, IsClosed, OpenTime, and CloseTime.

ENTOUCH Admin Enterprise Facility Account Facility Search

Dashboard | Map View | List View | Graphs | Reports | Cases | Setup | Tools

Import Special Hours

Special Hours is an Advanced Scheduling feature for handling days whose schedules deviate from standard business hours.

Here you can import special hours for multiple facilities and dates at one time. Special hours can also be managed at the facility level in the basic facility setup.

CSV File

Max size 15 MB

Available Column Headers

- FacilityName
- Date
- IsClosed
- OpenTime
- CloseTime



ALERT NOTIFICATIONS

The screenshot shows the ENTOUCH web interface for configuring support alert notifications. The page is titled "Support Alert Notifications" and includes a navigation bar with "Admin", "Enterprise", "Facility", and "Account" tabs. A search bar is located in the top right corner.

Support Alert Notifications

Configure alert notification emails to be sent to a 3rd party support organization.

Off On

Support Company

Send notifications to:
Buchanan (entouchser)

Notification Schedule

When to send notifications:
 Always Schedule

Alert Configuration

Set the default configuration to **All** in order to send notifications for all managed alerts for all customers. If you want to exclude, or change the alerts for, a particular customer you can select that customer and change it's settings.

In order to only turn on alert notifications for particular customers, start with the default configuration set to **None**. Then, choose and configure each customer which should generate alert notifications.

For alerts which may assert due to a sensor error:

- **Errors** - Turn on alert notifications for alerts due to a sensor error only.
- **On** - Turn on alert notifications for all alerts, including those due to a sensor error.

Customer:
Default Configuration [i] All None Custom ⓘ

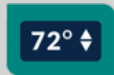
HVAC Control **Energy Monitor** **Lighting Control**
Remote Sensors **Dimming Control**

Off On High DC Input Value
 Off On High Internal Temperature
 Off On High Sensor Temperature
 Errors
 Off On High Sensor 2 Temperature



SAMPLE REPORTING

- HVAC Settings Review – Graphical representation of all HVAC settings to ensure the facility(s) are running according to agree upon settings
- Alert by Site Overview – Graphical representation and analysis of the facility(s) producing the most alerts including visibility into type and potential resolutions
- Overrides by Site – Graphical representation and analysis of facility(s) overriding thermostat schedule settings within allowable tolerance
- Case Overview – Graphical representation and analysis of case source, resolution type, and location for cases opened and closed for a given timeframe
- Set point Overview – Graphical representation of occupied and vacancy set- points to ensure consistent application of standards across the enterprise
- Vacancy Runtime by Unit – Graphical representation and analysis of units running during vacancy including set-points during vacancy
- Temperature Control Efficiency - Graphical representation and analysis of average delta from set-point and runtime by RTU (rooftop unit) to determine which HVAC units are running efficiently
- Open Case Report – Listing of all open cases for Ralph Lauren facility(s) requiring customer action
- HVAC Cycle Count Per Day – Graphical representation of the number and types of cycles for each HVAC unit for a pre-defined time period
- HVAC Runtime Cycle Analysis – Graphical representation of the average runtime by stage for each HVAC unit for a pre-defined time period
- Energy Savings Analysis – Reporting assembled on energy reduction based on energy invoices over time



EFFECTIVELY
CONTROL HVAC
SYSTEMS IN STORES
*regardless of age or
technological sophistication*



ENERGY
CONSUMPTION
SUBSTANTIALLY
REDUCED IN
NO TIME



SAVINGS MORE
THAN ENOUGH
TO RECOUP
INVESTMENT IN
1-2 YEARS

THE BUSINESS CHALLENGE

High Energy Costs in Low Margin Business

- 1,000+ Stores in US and Puerto Rico
- Aging facilities with outdated thermostats and no connectivity Energy
- intensive HVAC systems constantly running
- Runaway energy costs

THE ENTOUCH SOLUTION

Remote monitoring for multiple facilities in a single dashboard

- Upgraded controls with set points and connectivity Reduced
- energy consumption during operating hours Energy consumption
- virtually eliminated on Sundays Decreased HVAC run time and
- energy costs