



Designing the Next Generation of Buildings

Samsung HVAC

SAMSUNG

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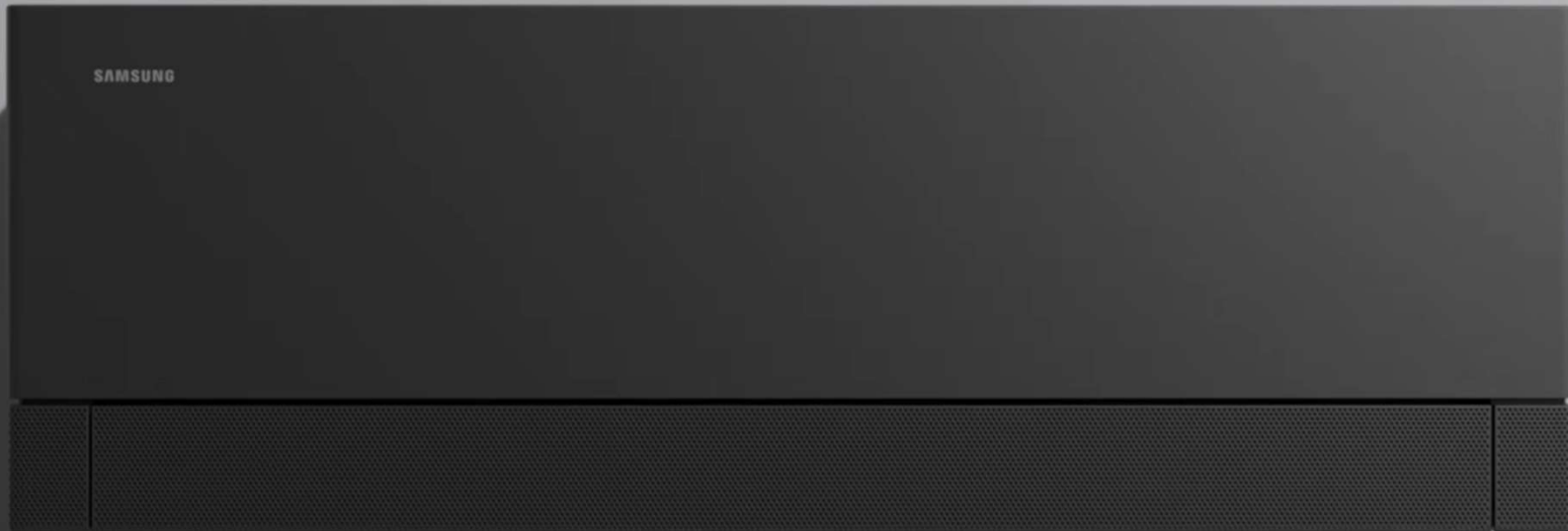


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- 3-2. Beyond HVAC
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Part 1. Building Trend

- 1-1. Building Industry is Changing
- 1-2. What Building Owners Want Today
- 1-3. Why HVAC Matters to Architects



Building Industry is Changing

Today's buildings are expected to be more sustainable, connected, efficient, and occupant-focused than ever before.



Decarbonization

WHAT Eliminating fossil-fuel combustion from operations.

WHY IT MATTERS SB 100 targets 100% clean power in CA by 2045.



Electrification

WHAT Heat pumps replace gas furnaces & water heaters.

WHY IT MATTERS Title 24 (2025) sets heat pumps as the baseline.



Energy Efficiency

WHAT Lower demand via envelope, sizing & controls.

WHY IT MATTERS Title 24 Part 6 is among the strictest US codes.



Smart Buildings

WHAT HVAC, lighting, security & energy — one platform.

WHY IT MATTERS Supports CA's demand-response requirements.



AI & Building Automation

WHAT Controls that learn occupancy, weather & usage.

WHY IT MATTERS Cuts cost, aids performance-based compliance.



Occupant Wellness

WHAT Air quality, comfort & daylight drive design.

WHY IT MATTERS WELL/LEED credits increasingly required in CA.

What Building Owners Want today

The conversation has shifted from meeting code to owning outcomes for the life of the building.

TODAY · WHY IT MATTERS



Comfortable Buildings



Smart Buildings

Sensors and controls now do what static setpoints alone can't.



Low First Cost



Low Operating Cost

HVAC alone can be 40%+ of a building's total energy draw.



Code Compliance



ESG & Decarbonization

Meeting code is the floor — investors now expect a carbon plan.



Equipment



Data & Insights

Owners want to see performance, not just install it and hope.



Individual Systems



Connected Ecosystems

One dashboard beats five vendors and five separate logins.

Why HVAC Matters More Than Ever

HVAC is no longer just about heating and cooling. It enables the energy performance, occupant experience, and operational intelligence that today's buildings demand.

HVAC



HVAC influences every aspect of a building



Sustainability

- Reduce energy use
- Support electrification
- Lower carbon emissions



Occupant Experience

- Thermal comfort
- Indoor air quality (IAQ)
- Wellness & productivity



Building Operations

- Lower operating costs
- AI-driven optimization
- Smart building integration

**Increasing
Building
Performance**



Part 2. Samsung

2-1. Who We Are

2-2. Why Samsung



Samsung Electronics HQ
Digital City at South Korea



SAMSUNG

Global Leading Tech Company



1st

Rank in Global Market



Market leader with over 31,000 smartphones
and 1,000 TVs sold every hour

5th

2025 Best Global Brands

Interbrand

5th

2024 Best Brands For Social Impact

Forbes

7th

2022 Most Innovative Companies

BCG



International Forum Design Award

The winner of 74 awards, the highest number of awards received to date, including:

- Product (38 awards, incl. 3 golds), Concept (8)
- Communication (7 awards), Packaging (2 awards)
- Service (2 awards), UX (15 awards), UI (2 awards)



Internationale Funkausstellung (IFA)

Europe's largest consumer electronics & home appliances trade show

Samsung was recognized for innovation at the 2025 IFA Innovation Awards and received 47 IDEA Design Awards for excellence in design and AI-driven user experience.



Morgan Stanley Capital International (MSCI)

Samsung received an MSCI ESG Rating of AA in 2025, placing it in the leader group for strong ESG risk management and sustainability performance.

Proprietary and confidential

Part 2. Samsung

2-1. Who We Are

2-2. Why Samsung



Samsung is at your service

Global leadership



In the past two years, we ranked:

#5 Interbrand Best Global Brands

#8 Forbes Most Valuable Brands

#25 Fortune Global 500 Brands

Leader in innovation



Our relentless innovation helps transform the way the world interacts with information and with each other.

\$25.9B invested in R&D 2025

#1 Patent Holder in U.S. and Europe

Unmatched ecosystem



Samsung has enhanced its extensive portfolio by developing powerful all-in-one software solutions that include a CMS and remote management.

History of success



By offering reliable and innovative products, our digital signage business has propelled us to No.1 in this market segment.

Strategic partnerships



We're always looking for ways technology can help our partners unlock new opportunities, resolve prevalent challenges and drive growth.

Service and support



Samsung ProCare Technical support offers direct access to our enterprise display engineers.

Part 3. Samsung Offering

3-1. HVAC

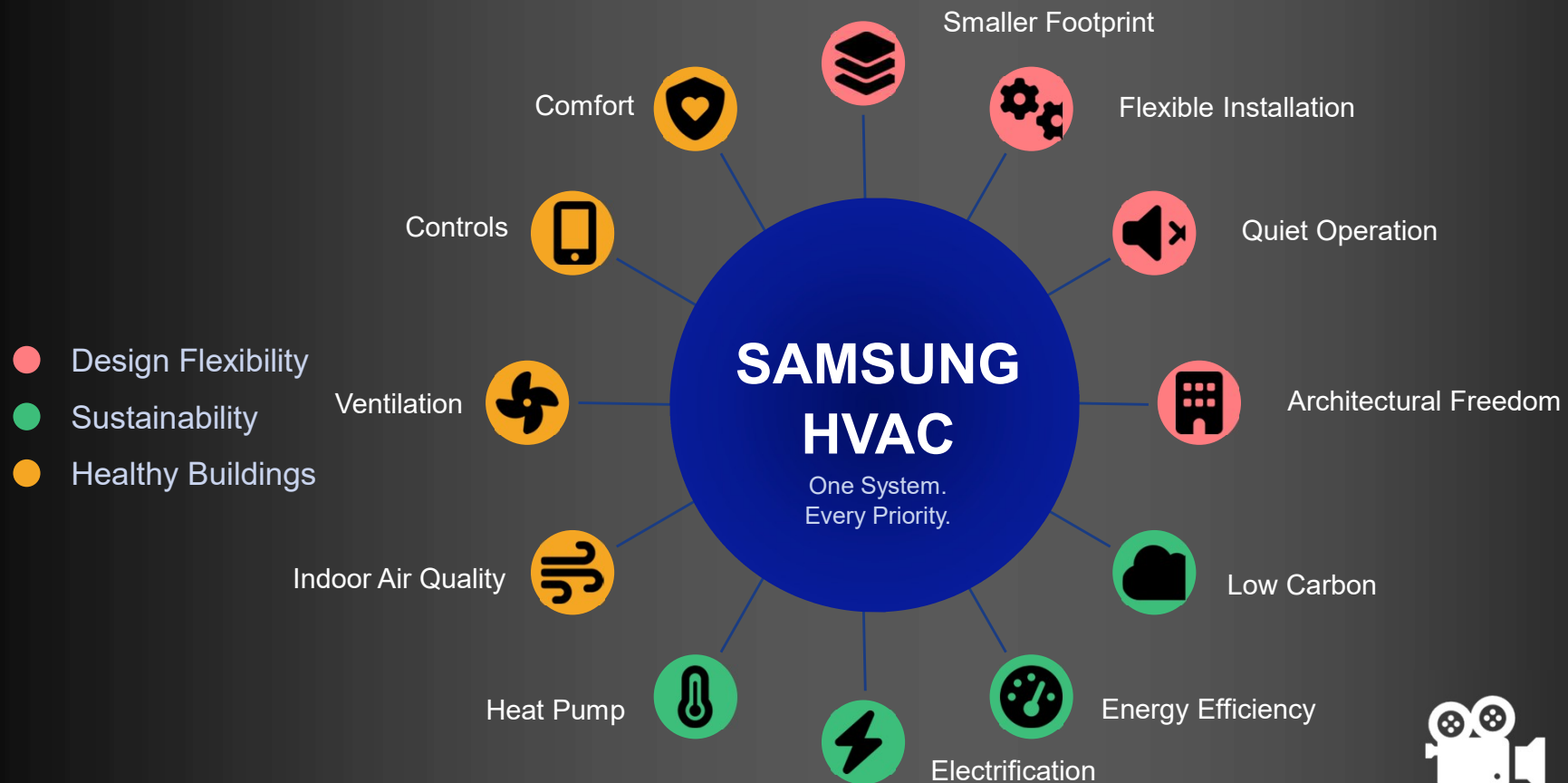
3-2. Beyond HVAC

3-3. SmartThings Pro

3-4. Case Study



Everywhere It Matters, Samsung HVAC Delivers



Inside Blueprint
Samsung HVAC

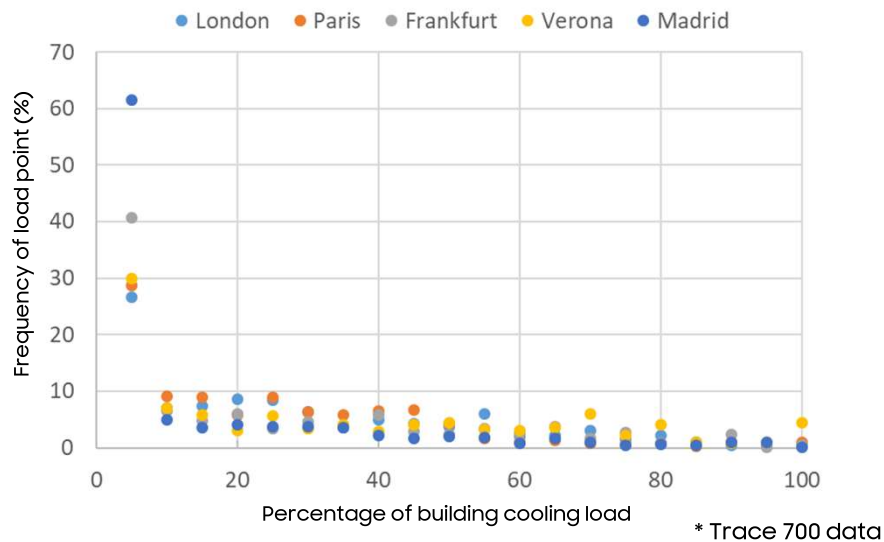
Sustainability

Samsung's Efforts to Launch Environment-friendly and High-efficiency Products

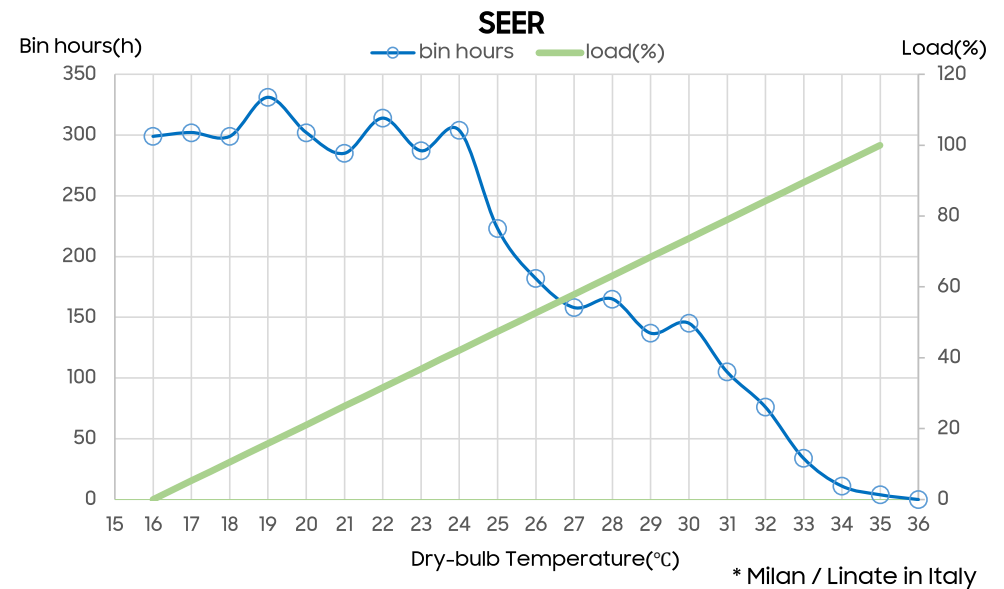
The use of more practical index(Partial load efficiency) is increasing

Majority of building loads is less than 80% of design load in cooling and 40% in heating respectively → Improvement of energy efficiency in partial load can contribute energy savings in actual building life cycle

Building load profiles



The insulation of building has continued to improve → HVAC load is decreasing, The HVAC system is operated mainly under part-load conditions



LEED & BREEAM Compatibility by Samsung

What is estimated points when using SAMSUNG VRF System?

LEED

Samsung VRF System + Relevant technology is able to get **24+@points** mainly from "ENERGY AND ATMOSPHERE"

Credit Items	Points	Details	Expected
Energy and Atmosphere (EA)	33	Optimize Energy Performance Advanced Energy Metering Enhanced Refrigerant Management	18* 1 1
Indoor Environmental Quality (EQ)	16	Enhanced Indoor Air Quality Strategies (Increased Ventilation) Thermal Comfort Design	1 1
Innovation (IN)	6	Exemplary Performance	2
Total	110		24 + @

DVM S2



BREEAM

Samsung VRF System + Relevant technology is able to get **Up to 50 credits**

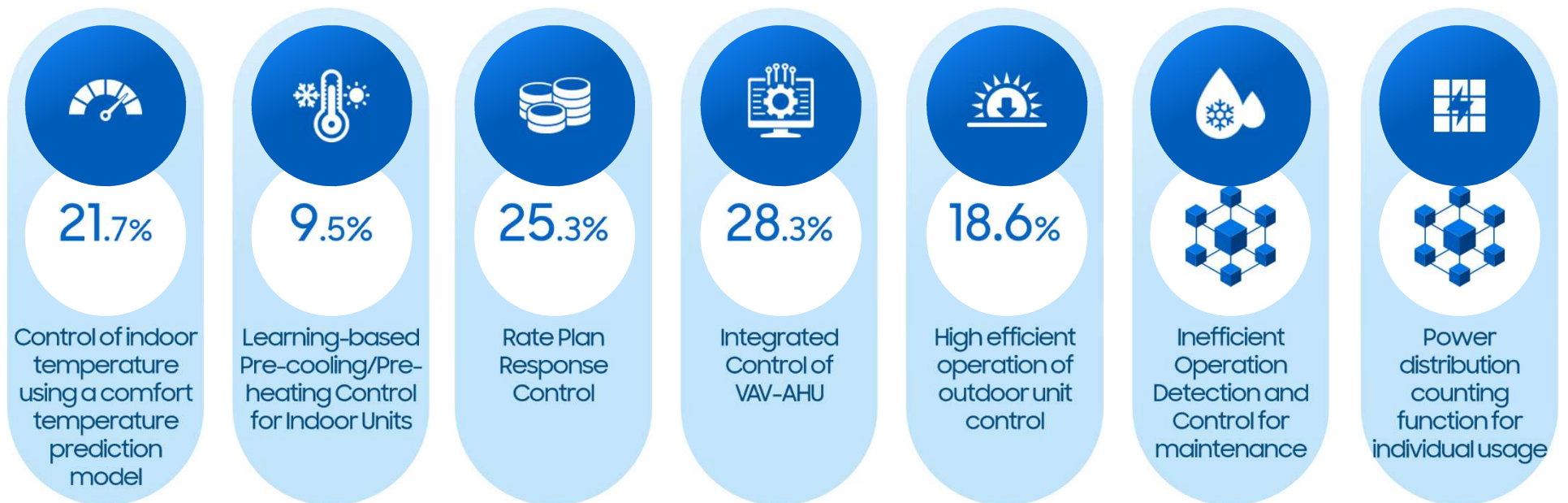
	Category	Details	Expected
	Management	Life Cycle Cost (LCC) Commissioning and handover Aftercare support	1 2 2
	Health & Wellbeing	Indoor air quality Thermal Comfort Acoustic performance	2 3 1
	Energy	Reduction of energy use and carbon emissions Energy monitoring Low carbon design	Up to 13 2 1
	Materials	Life cycle impacts Responsible sourcing of construction products Material efficiency	Up to 7 1 1
	Waste	Construction waste management Adaptation to climate change Design for disassembly and adaptability	2 1 2
	Pollution	Impact of refrigerants Local air quality Reduction of noise pollution	Up to 3 2 1
	Innovation	Aftercare support Reduction of energy use and carbon emissions	Up to 1 Up to 2
Total			Up to 50

※ This data is based on Samsung's internal calculations for a reference site, and result credit to each site may vary.

Cost Savings

HVAC total management cost reduction by b.IoT+HVAC

Developing an Independent Optimal Control Algorithm Through Demonstration of Onsite Equipment



Realizing energy savings by applying algorithms tailored to on-site conditions

※ All functions mentioned above can be applied to the b.IoT Lite/Cloud models,
Reduction ratio is based on Samsung's internal calculations for a reference site, and the algorithms and result values applicable to each region may vary.

CASE STUDY ; Reduce Energy Cost

By Building Energy Modelling

Project Overview

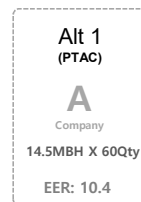
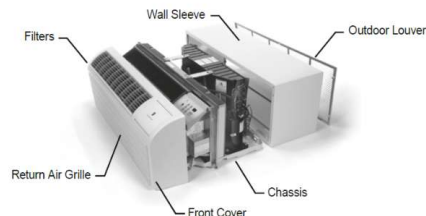
■ Project Information

- Project name : Havana Hotel Project
- Type : Hotel
- Location : San Antonio, TX
- Product : DVM S HR



■ Building Energy Modeling Issues

- Customer would like to compare the annual energy consumption for two types of Air-conditioner.

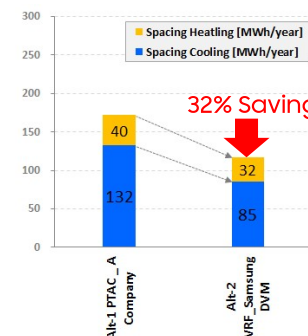
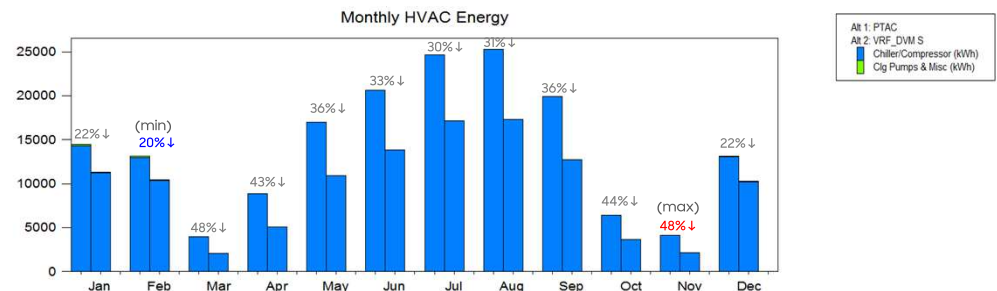


VS



BEM Result

■ Samsung DVM S would decrease the energy consumption by **32%**



Note: The percentage displayed for the "Proposed/ Base %" column of the base case is actually the percentage of the total energy consumption.

* Denotes the base alternative for the ECB study.

		* Alt-1 PTAC			Alt-2 VRF_DVM S		
		Energy 10^3 kWh/yr	Proposed / Base %	Peak kW	Energy 10^3 kWh/yr	Proposed / Base %	Peak kW
Space Heating	Electricity	39.5	23.0	81	31.6	80.1	70
Space Cooling	Electricity	132.2	77.0	70	85.4	64.6	61
Total Building Consumption		171.7			117.0		

		* Alt-1 PTAC		Alt-2 VRF_DVM S	
		Energy 10^3 kWh/yr	Cost/yr \$/yr	Energy 10^3 kWh/yr	Cost/yr \$/yr
Electricity	Number of hours heating load not met	171.7	0	117.0	38,612
Total	Number of hours cooling load not met	172	0	117	38,612

(32% Saving)

CASE STUDY ; Reduce Energy Cost

By Building Energy Modelling

Project Overview

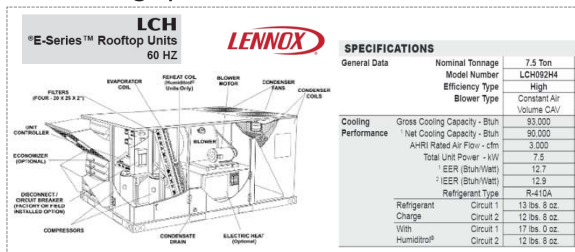
■ Project Information

- Project name : Trader Joe Project
- Type : Retail
- Location : San Jose, California
- Product : DVM S



■ Building Energy Modeling Issues

- Customer would like to see an energy simulation system compared to the existing system.



Existing
(Air-cooled unitary)
- EER: 12.7

SAMSUNG
(DVM S)

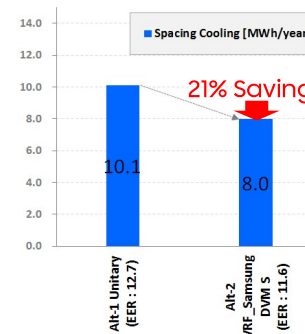
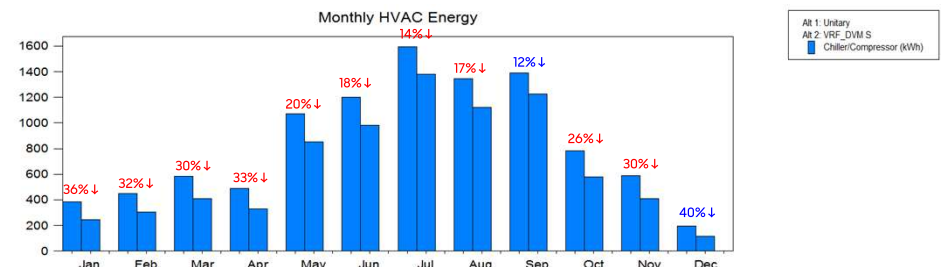


- EER: 11.6

vs

BEM Result

■ Samsung DVM S would decrease the energy consumption by 21%



Project Name				Date: 14, 2019			
City: South West		Weather Data: San Jose, California					
Note: The percentage displayed for the "Proposed" Base % column of the base case is actually the percentage of the total energy consumption.							
* Denotes the base alternative for the ECB study.							
		* Alt-1 Unitary			Alt-2 VRF_DVM S		
		Energy 10+3 kWh/yr	Proposed / Base %	Peak kW	Energy 10+3 kWh/yr	Proposed / Base %	Peak kW
Space Heating	Electricity	0.0	0.0	0	0.0	0.0	0
	Gas	0.0	0.0	0	0.0	0.0	0
Space Cooling	Electricity	10.1	100.0	6	8.0	79.0	6
Total Building Consumption		10.1			8.0		
		* Alt-1 Unitary			Alt-2 VRF_DVM S		
Total	Number of hours heating load not met	0			0		
	Number of hours cooling load not met	0			0		
		* Alt-1 Unitary			Alt-2 VRF_DVM S		
		Energy 10+3 kWh/yr	Cost/yr \$/yr		Energy 10+3 kWh/yr	Cost/yr \$/yr	
Electricity		10.1	0		8.0	0	
Total		10	0		8	0	

(21% Saving)

Installation Cost Reduction by Optimized technology

The liquid pipe diameter can be scaled down by optimized refrigerant cycle control technology



Pipe diameter down

Cost save!

Refrigerant amount decrease

Cost save!



· From the outdoor unit to the first branch of indoor unit, the main liquid pipe diameter can be scaled down.

※ above 12HP capacity available

Previous Model	
15 kg	Weight of Liquid Pipe
\$ 250	Cost of Liquid Pipe
8.1 kg	Additional amount of Ref.
\$ 778	Cost of Refrigerant
-	Total cost save



DVM S2	
10 kg	5kg↓
\$ 197	\$53↓
5.9 kg	2.2kg↓
\$ 562	\$209↓
\$ 269 (35%)	

* Installation condition : 26HP outdoor unit, liquid pipe length 30m

* Refrigerant, Copper tube costs are based on Netherland market price on Nov. 2020.

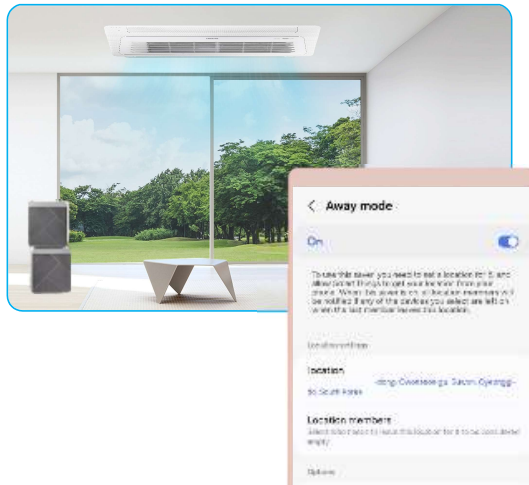
Intelligent & Adaptive System for comfort

SmartThings App

With the SmartThings app, users can remotely control their home appliances anytime, anywhere. In addition, they can check their energy usage in real time and receive alerts if their electricity usage exceeds a certain threshold.

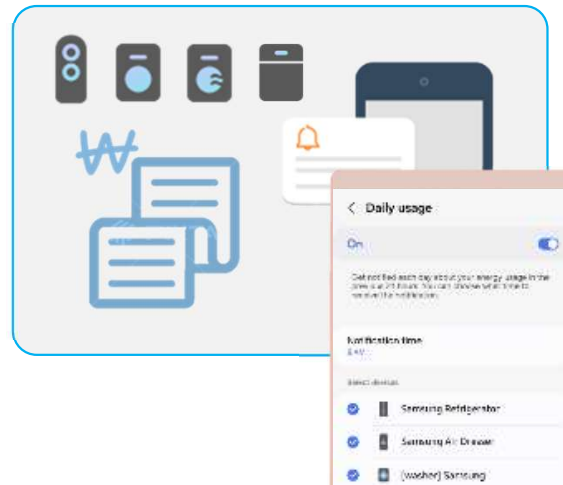
Energy Management While out and about

If there is a product running when you go out, the user will be notified and the power can be turned off automatically.



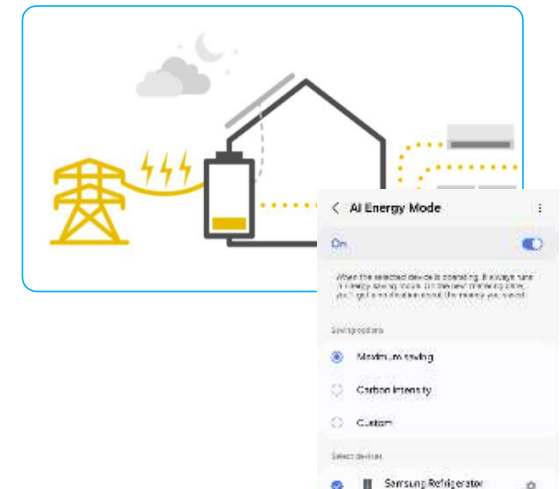
Daily Energy usage notification

You can receive notification on energy consumption from the past day.



Smart Pre-Cooling

You can get a notification to pre-cool the house using the remaining solar energy.



Design Flexibility

A close-up photograph of a device's grille, showing a dense pattern of small, circular micro air holes. The grille is dark grey or black, and the text "23,000 micro air holes" is overlaid in white. The device has a white top edge and a dark grey bottom edge.

23,000 micro air holes

- 43% Faster Cooling for immediate comfort
- Maintains temperature without direct airflow in WindFree™ Cooling
- Less Sound / Less Noise

WindFree™* Air Conditioner

WindFree™ air conditioner guarantees a more pleasant environment that increases work efficiency and energy saving

* The WindFree™ unit delivers an air current that is under 0.15m/s while in WindFree™ mode. Air velocity that is below 0.15m/s is considered "Still air" as defined by ASHRAE(American Society of Heating, Refrigerating and Air-Conditioning).

Comfortable Environment



Energy Saving



4Way Cassette



Normal air conditioning

50% ↓
Energy Saving



WindFree™ air conditioning
*1Way Cassette: 61%

Samsung 360 Cassette



360 Cassette

- 360 Cassette



360° Air Flow

Supplying 360 degrees, even airflow, reduces hot and cold spots in the space providing ultimate comfort.



Bladeless

Uses the Coanda effect to control discharge air without the use of blades or louvers.



Circular LED Display Window

The LED display graphically indicates the airflow outlet direction.



Stunning Circular Design

The beautiful design accentuates any decor, from modern to traditional. This unit is suitable for homes, offices, and mid to large-scale buildings.

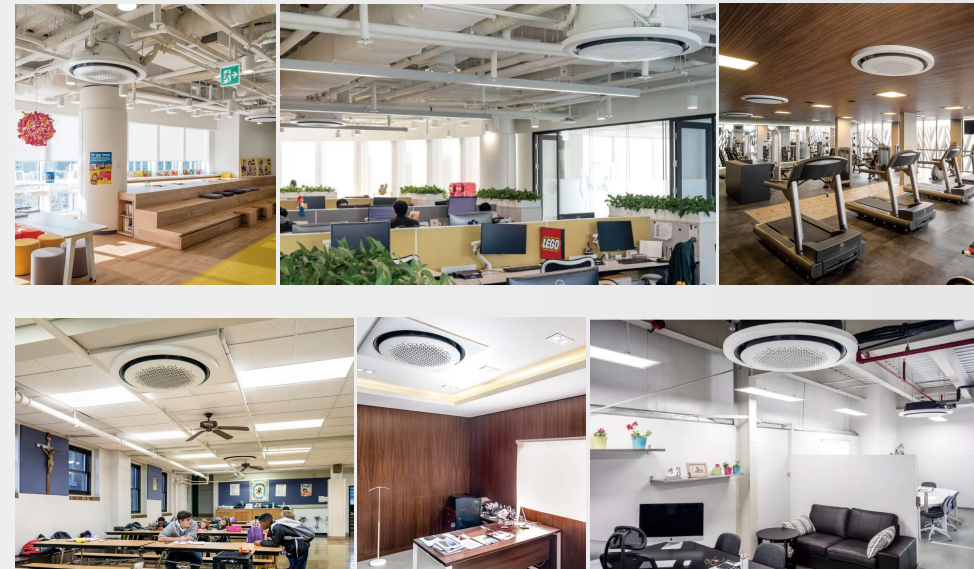
Good design 360 CST

The air conditioner, which combines a uniform level of cooling and air purifying, not only satisfies guests but also make it more valuable

360 Cassette



The stylish circular design of Samsung System Air Conditioner 360, which won the world-renowned iF Design Award, goes well with any space and completes a stylish interior point



iF Design Award: The iF Design Award, which began in 1953 under the supervision of the German International Forum Design, selects outstanding works by comprehensively evaluating a total of seven fields, including products and communication, and is recognized as one of the most reliable international awards among world design awards



Slim Duct



High Wall



Duct S



**Multi-Position
Air Handler**



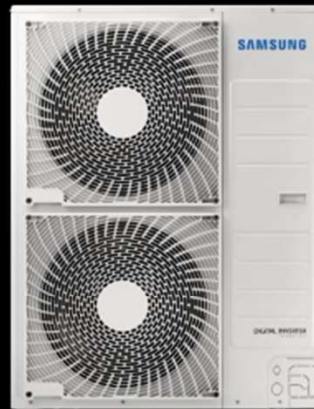
Console



**WindFree™*
1-Way Cassette**



**WindFree™*
Mini 4-Way
Cassette**



**Light Commercial (CAC)
Single Zone System**



**WindFree™*
4-Way Cassette**



360 Cassette

Compatible indoor units

Actual equipment may vary.

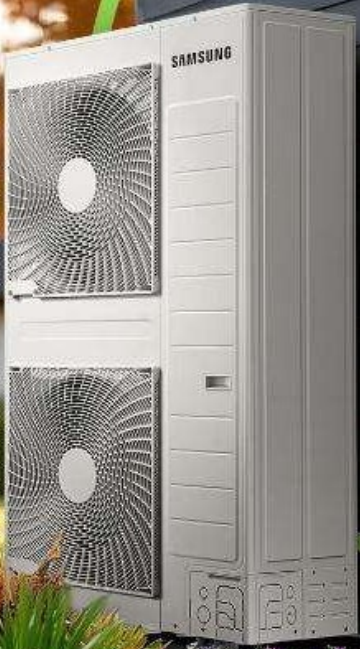
*The WindFree™ unit delivers an air current that is under 0.15 m/s while in WindFree™ mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE 55-2013 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers).

A photograph of a modern, single-story house at dusk or night. The house has large windows and a flat roof. The interior lights are on, and the exterior is lit with warm, yellow lights. A large palm tree is on the left, and a path leads from the foreground towards the house. The sky is dark, and there are other trees in the background.

SAMSUNG

presents

DVM MINI



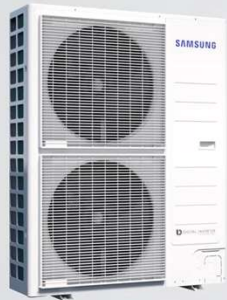
DVM S Mini

The image shows a Samsung DVM S Mini outdoor air conditioning unit. It is a tall, white, rectangular unit with two large circular fans on the front. The unit is installed on a concrete pad next to a dark grey building. In the background, there is a house with a dark roof and some trees with autumn-colored leaves. A person and a child are walking on a path in the background. The unit has the Samsung logo at the top.

R32 DVM MINI UPDATES

- Single family Home
- Small to Medium Office
- Multi Family
- Mixed Use
- Etc.....

Smaller unit.
Bigger possibilities.



- Long piping length capabilities:
 - 492' from ODU to farthest IDU (574' equivalent)
 - 361' from ODU to 1st component
 - Y-joint/header for HP or HR Changer for HR
 - 131' from 1st device to farthest IDU
- 50-130% connection ratio range
- Connect up to 10 indoor units (depending on the outdoor model)
- Shut off Port for HR & HP

Heat Pump

- 2 Ton (New)
- 3 Ton
- 4 Ton
- 5 Ton



New 2 Ton Mini HP

- Advantage-Smaller multi zone
- Use as 1 to 1 for extended line lengths
- Single Fan

Heat Recovery

- 3 Ton
- 4 Ton
- 5 Ton



DVM S Mini

Compatible Indoor Units

WindFree™



Facia panel sold separately on all Cassette indoor units.



360 Cassette
18K - 48K



WindFree™ 4-Way Cassette
18K - 48K



WindFree™ Mini 4-Way Cassette
9K - 18K



WindFree™ 1-Way Cassette
9K-18K



WindFree™ 7K - 24K



Duct S
6K - 48K



Slim Duct
7K - 48K



Floor Standing (Concealed)
6K - 24K



Big Ceiling
36K - 48K



HSP Duct
54K



Floor Standing (Exposed)
6K - 24K



Under Ceiling
18K - 24K



Multi-Position Air Handler
12K - 60K

Indoor Units
Section
Detail



^Product registration required. Conditions apply.

†Available for download on the Google™ Play store and App Store®. A network connection is required. Samsung application account is necessary.

*The WindFree™ unit delivers an air current that is under 0.15 m/s while in WindFree™ mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE 55-2013 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers).



CUSTOM HOME

- FOOTPRINT
- BEDROOM, HOME OFFICE, HOME GYM IN DIFFERENT MODES
- INDIVIDUAL ZONE CONTROL



OFFICE

- FOOTPRINT
- OPEN OFFICE FLOOR PLAN IN ONE MODE WHILE OFFICES IN DIFFERENT
- SINGLE PHASE POWER

MULTI FAMILY

- FOOTPRINT ON ROOF
- MULTIPLE TENANTS ON ONE SYSTEM
- LONGER LINE LENGTHS THAN TYPICAL MINI SPLIT
- MIX WITH LARGER VRF SYSTEMS TO MINIMIZE FOOTPRINT

DVM S2+



FileHomeReportSetHelp

New Project

Project Information

Building Based Design

Building Management

Space view

Zoom In/Out

Space Expansion

Zoom in all

Copy

Paste

Cut

System Management

System Copy

Current System

All Systems

Real Time Check

Refr. Regulations

Design water pipe

Water pipe mode

Set all water pipes

Zoom in/OutClipboardSystemCalculation/CheckWater Pipe

Design

Information

Wing/Controller

Equipment / Piping

Add System

+

System Information

Calculation / Check

Accessory

Property

Room Heat Load

Specification

New Project

Project NameStudio

Customer Information

Name

Contact

E-Mail

Address

Designer Information

☐ The same as customer information

Name

Contact

E-Mail

Address

Design Condition

CountryUSA

CityAberdeen, WA

Capacity Correction (VRF Only)

☒ Simultaneous Operating

☐ Max. Capacity

Block Load (VRF Only)

☒ Not Apply

☐ Apply

Design Condition (Air)

°F	Cooling		Heating	
	Outdoor	Indoor	Outdoor	Indoor
DB Temperature	80.06	80.60	24.98	68.00
WB Temperature	64.94	66.20	20.64	59.00
Relative Humidity	44.40	46.99	50.00	58.98

Design Condition (Water)

°F	Cooling		Heating	
	EW Temp.	LW Temp.	EW Temp.	LW Temp.
Cooling Water	86.00	95.00	68.00	59.00
Chilled Water	53.60	44.60	104.00	113.00

Altitude ft

Load design condition

Design Condition Management

OK

Cancel

Part 3. Samsung Offering

3-1. HVAC

3-2. Beyond HVAC

3-3. SmartThings Pro

3-4. Case Study



Buying from multiple suppliers adds to operational complexity and risks

6-10

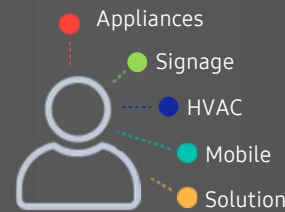
decision makers involved in a typical buying group, armed with information gathered independently



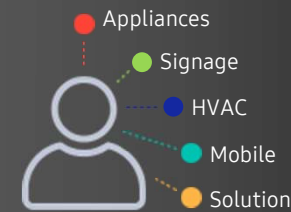
the set of options and solutions buying groups can consider is expanding

77%

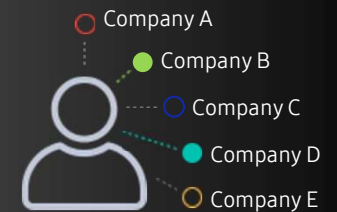
of the customers described their purchase as 'very complex' or 'difficult'



Multiple contact points



Multiple suppliers quotes for review

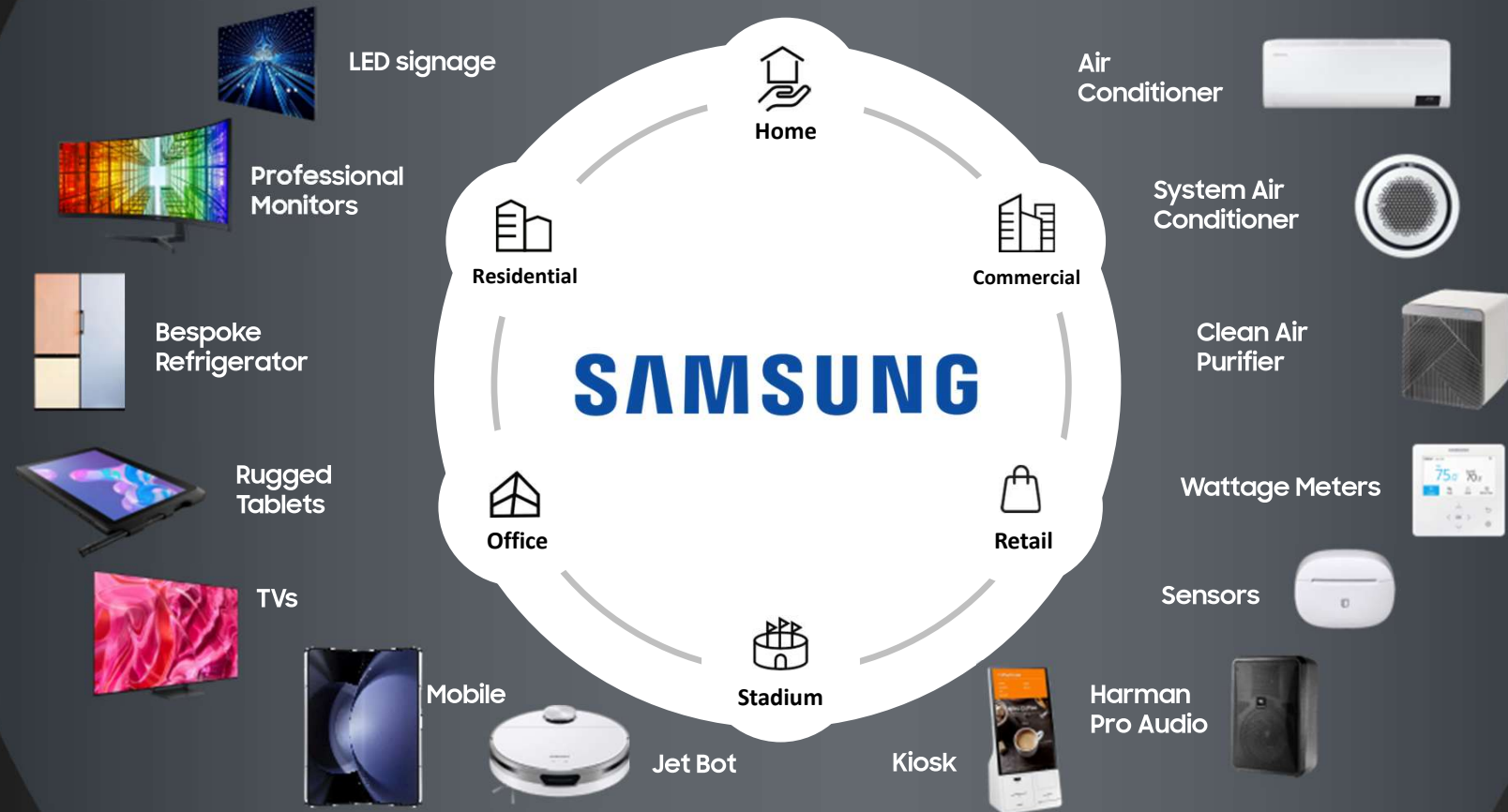


Risk of suppliers discontinuing maintenance & service

Global Risk

- Competitive Risk
- Financial Risk
- Operational Risk
- Compliance Risk
- Reputational Risk
- Strategic Risk

One Samsung offers integration of devices/solution/services



Key Vertical Samsung support



Education

- Smart Learning
- Campus Connectivity
- Healthy Indoor Air
- Energy Management



Multi Family / Residential

- Smart Living
- Energy-Efficient
- Connected Homes
- Building Automation



Office

- Employee Wellness
- Smart Collaboration
- Building Automation
- Energy Optimization



Sports & Entertainment

- Fan Experience
- Large-Scale Displays
- Venue Connectivity
- High-Efficiency HVAC



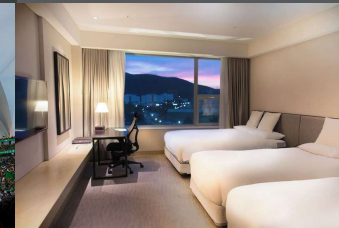
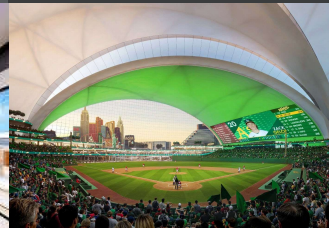
Hospitality

- Guest Experience
- Smart Room Control
- Energy Efficient
- Connected Operations



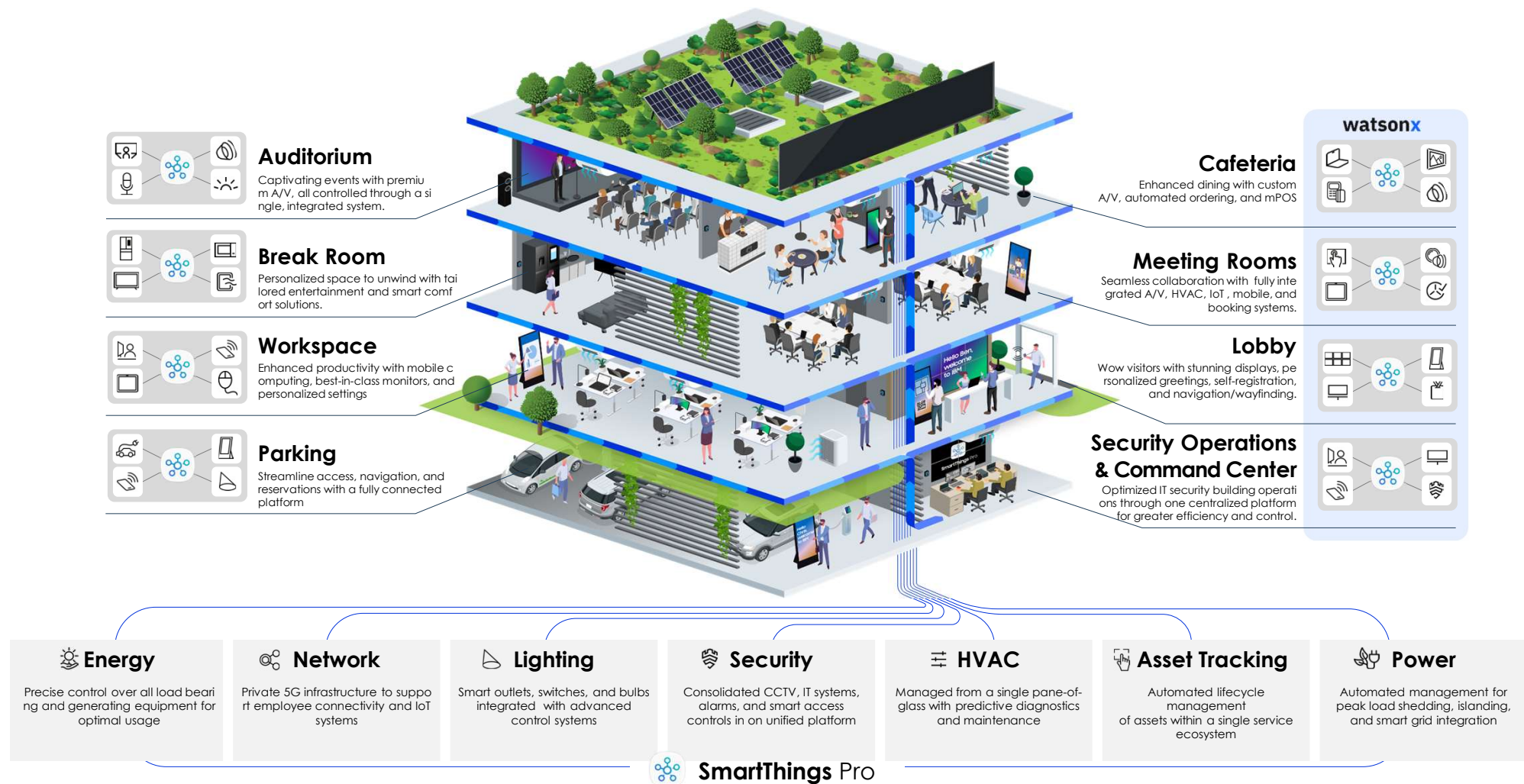
Retail

- Customer Engagement
- Digital Signage
- Smart Store
- Energy Optimization



"See Your Vision Through Us"

One Samsung Solutions for Mixed Building



"See Your Vision Through Us"

One Samsung for Residential

Easy access to entertainment amenities



QLED TV



Crystal UHD TV

Space saving built-in home appliances



Built-in Home Appliances

Durable products for easy maintenance



Built-in Washer

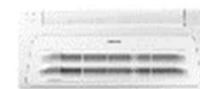


All-in-one Washer & Dryer



Air Conditioner

Comfortable indoor living with efficient climate control



Air Conditioner



Air Conditioner



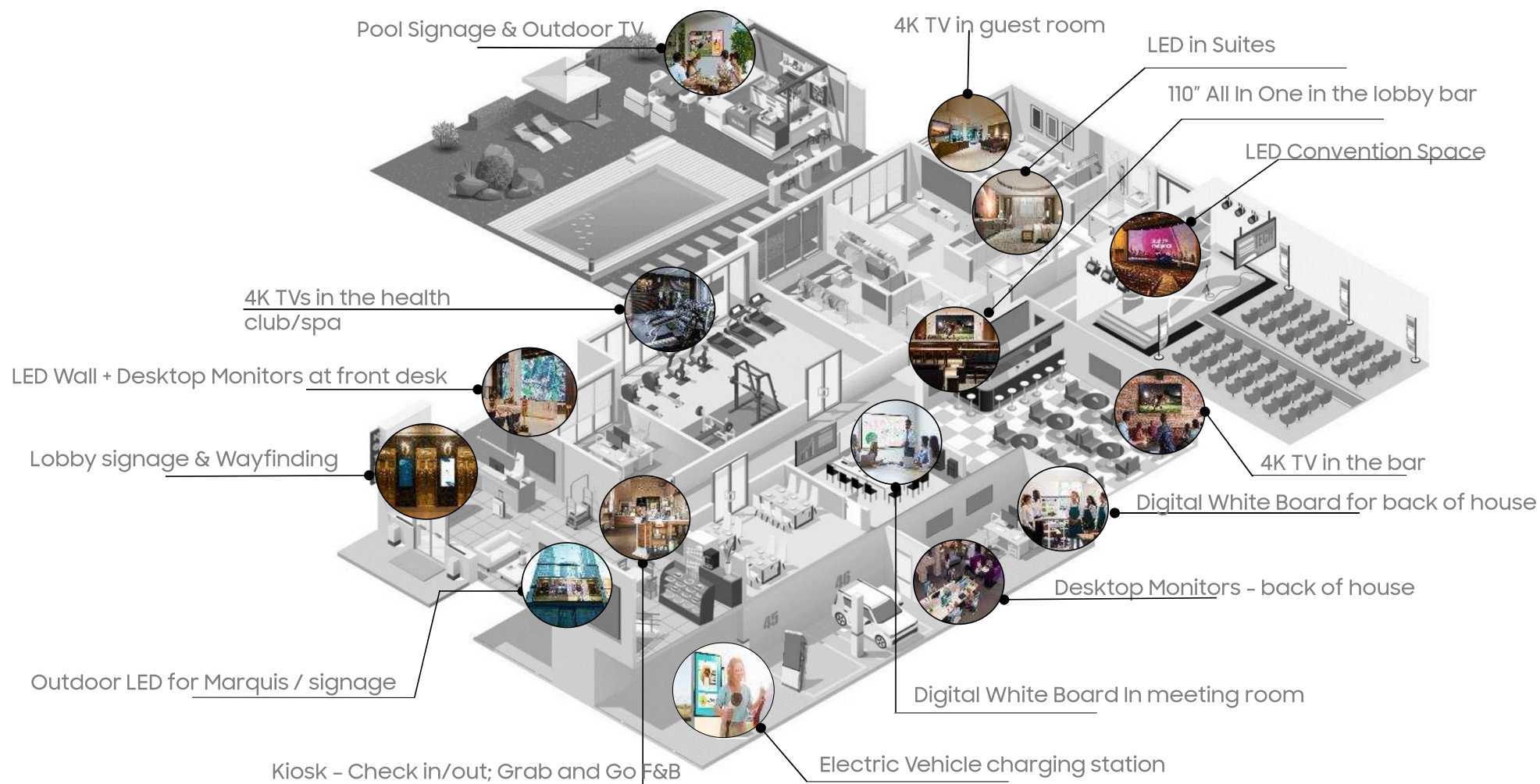
Air dresser

Optimized energy management, and streamlined device control and diagnostics



"See Your Vision Through Us"

One Samsung for Hospitality



One Samsung for Retail

"See Your Vision Through Us"



Interactive

TVs, LED Walls, Appliances
(Air dresser, refrigerators,
etc.)



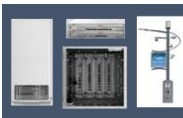
Signage

TVs, LED Walls,
Appliances
(Air dresser,
refrigerators, etc.)



Inventory

Indoor Displays, Way
Finding, Touch
Kiosks



Private 5G Network

Hardware Infrastructure
for fixed wireless access
networks



Control Room

Monitors, Laptops, Biz
Ruggedized Tablets,
Smart Phones



Entry

Indoor Displays, Way
Finding, Touch
Kiosks



Exterior

Outdoor LED, Ribbon,
architectural lighting



Parking Lot

EV chargers with
displays



Point of sale

Indoor Displays, Way
Finding, Touch
Kiosks



Mobile Apps

Indoor Displays, Way
Finding, Touch
Kiosks



Kiosk

Indoor Displays, Way
Finding, Touch
Kiosks

Part 3. Samsung Offering

3-1. HVAC

3-2. Beyond HVAC

3-3. SmartThings Pro

3-4. Case Study



SmartThings Pro

Samsung's IoT Platform for Enterprise-scale Connected Living

Centralized Device & Access Control

Automated Routines & Alerts

Energy Optimization & Reporting

Flexible Interfaces for Staff & Residents

SmartThings Pro is a key enabler for Samsung's B2B integrated offering

- SmartThings Pro can be seamlessly integrated with Samsung hardware devices, empowering B2B customers to fully benefit from the Samsung ecosystem.

SmartThings Pro native ecosystem

SmartThings-enabled Samsung Home Appliance/B2B Display



Samsung HVAC controller DMS

Data Management Server



Samsung HVAC controller TCC 2.0

Touch Centralized Controller



SmartThings-enabled 3rd party device



3rd party controller



SmartThings Pro-partner integration

Management system

CMS*(Retail)

Multi-site In-store management

* Content Management System



PMS*(Hotel, MFU**)

Property management Maintenance

* Property Management System
** Multi Family Unit



IWMS*(Office)

Office asset management Meeting room reservation

* Integrated Workplace Management System



Commercial grade device



S/W module



Data



Service module



SmartThings Pro addresses key operational needs of B2B customers

- Key vertical scenario in SmartThings Pro

AI Residence	AI Retail	AI Stay	AI Office
• Management of multi-unit buildings scattered in multiple locations • Interoperability with legacy systems via API • Insights to property energy performance • Enhanced resident safety management	• Centralized monitoring for enterprise retail chain • Automated in-store operations • Improved customer journey by visualizing in-store behavior	• Personalized guest room experience via in-room QR control • Gain clarity on factors influencing variable cost in operation • Increase staff productivity with wearable device tracking	• Streamlined meeting room environment setting process • Energy-efficient facility management
All verticals • Device management & monitoring • Predictive maintenance • Automation • Granular access control (Manager, SI/installer, guest, resident) • Insight dashboard • Reports			

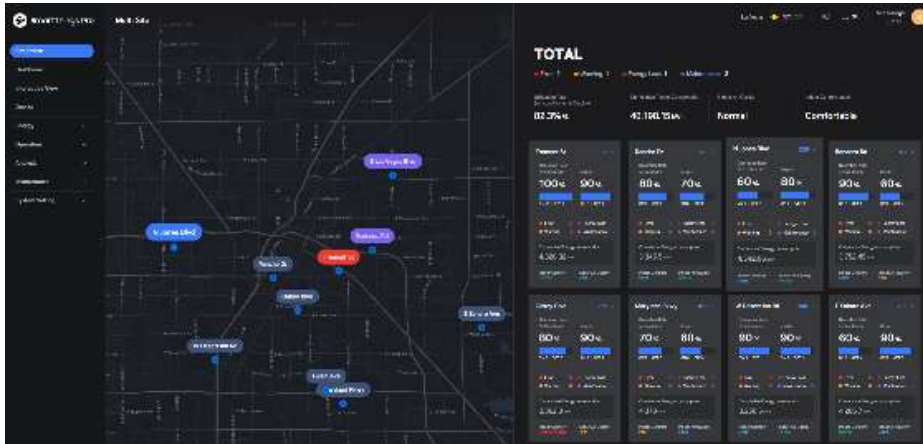
AI Residence ① Scalable for multi-unit, multi-property management

- Get comprehensive insights on properties scattered in multiple locations

Multi-property at a glance

Track key operational status of multiple properties

- Bring transparency to every property that needs to be managed, with all properties displayed in a map
- Quickly identify areas of underperformance in each property card based on real-time data of device operation, energy usage, and air quality



Property insights dashboard

Gain property-wide insights with an intuitive site dashboard

- Deploy at scale with site – group hierarchy representing physical spaces of multi-family units
- Widget-based dashboard shows key details (device operation & error status, energy usage & savings, air quality) of a single property site

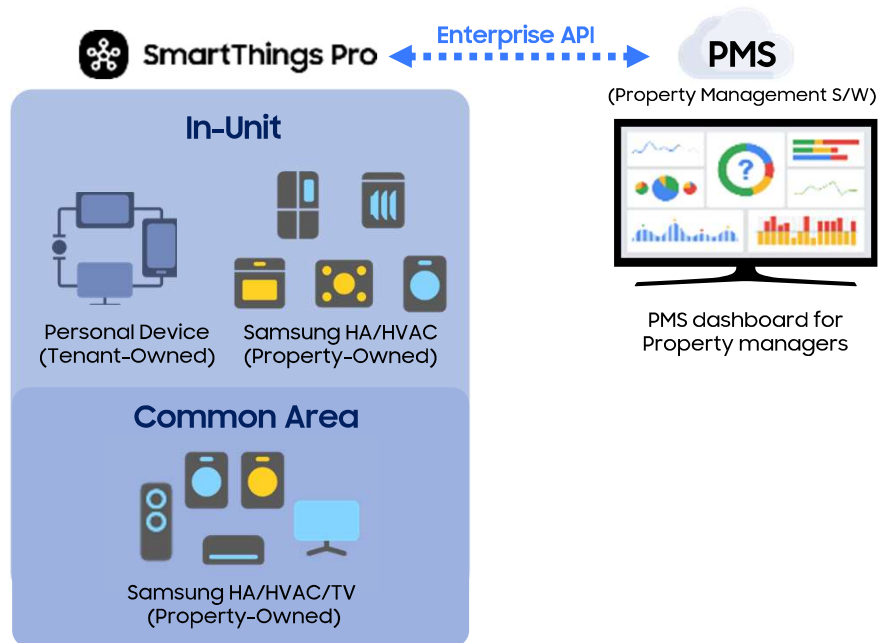


AI Residence ② Interoperable with existing management systems via API

- Eliminate silos from fragmented management systems, and enable single point of control

Flexible integrations via API

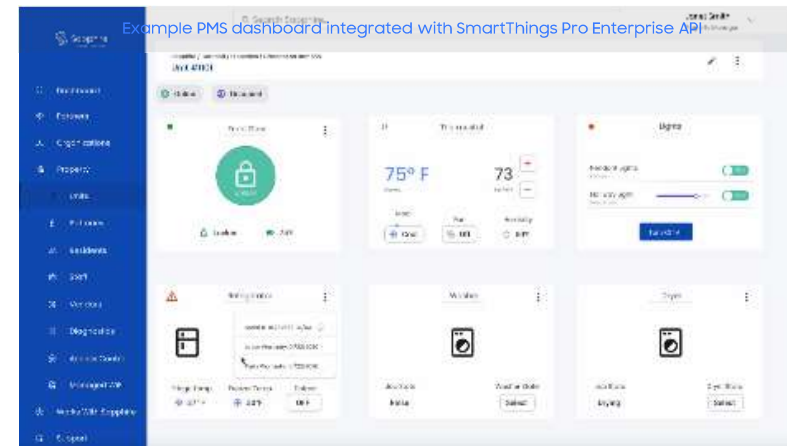
Cloud-to-cloud integration between SmartThings Pro and legacy property management system is powered by Enterprise APIs



Unified property management

Property managers are able to use a single dashboard integrated with Enterprise APIs for property management

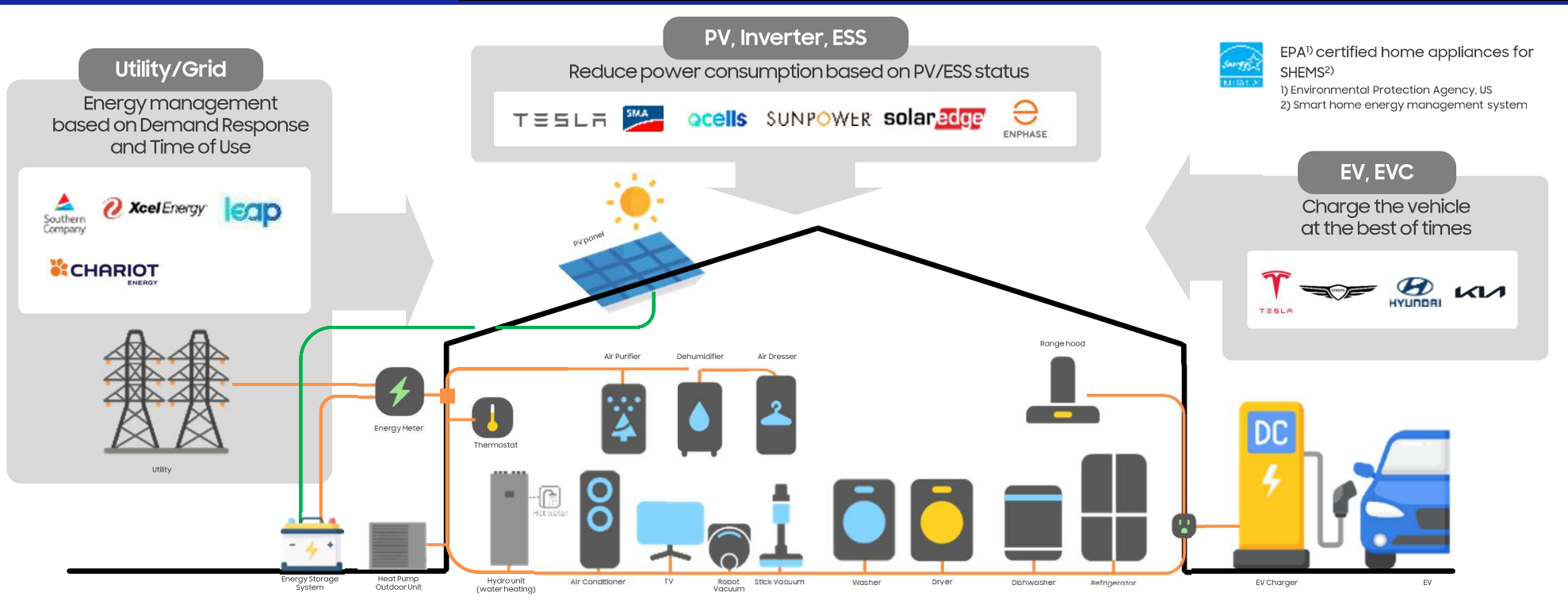
- Smoothly manage resident transitions during move-in and move-out by centralizing access control in a single dashboard
- Receive alerts in management dashboard when in-unit devices need repair and create new work order to dispatch maintenance teams to units



AI Residence ③ Gain insights on property energy performance

- Keep track of energy performance in individual properties

Home energy data mapping



Features described here can also be applied to other vertical use cases 51

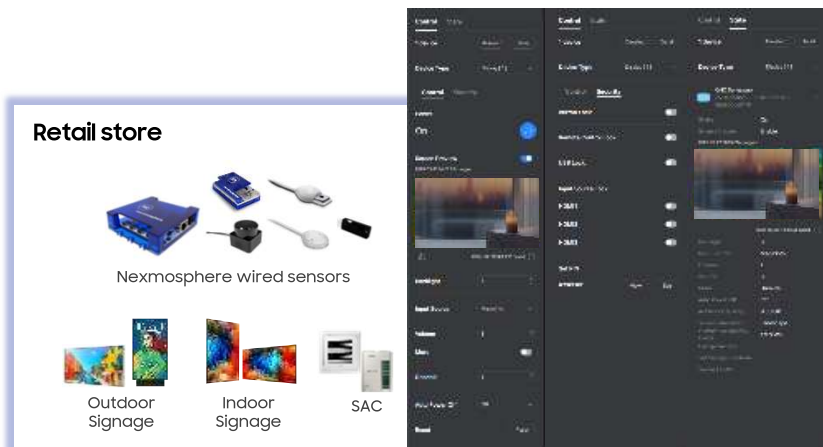
AI Retail ① Automate in-store operational routines

- Simplify in-store operations, like automating display settings, temperature, and lighting

Display settings automation

Streamline complicated display settings on device lifecycle, security and content

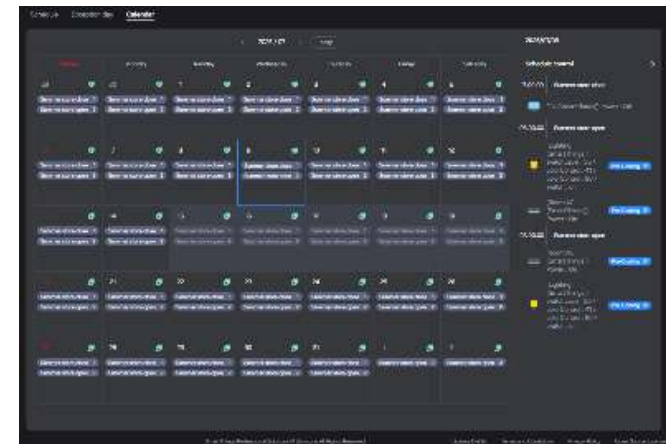
- Set in-store digital signage routines triggered by store environment conditions captured in Nexmosphere wired sensors
- Screen preview, backlight control and lock features available for display automations (remote firmware update, input source support for November)



Store scheduling

Automate manual store operations with device routines and eliminate human error

- Create schedules that reflect daily store operations such as store open and close
- Map device routines to each schedule for seamless operation of display, HVAC, lighting devices



AI Retail ② Improve customer journey and engagement

- Visualize in-store customer activity with CCTV integrations and heat map layers

Spatial understanding

Navigate the space using a 3D interactive layout that shows all devices inside the store

- Generate a 3D layout populated with all devices, reflecting their positions within the store
- Uncover physical areas inside the store that are being underutilized or inefficiently used

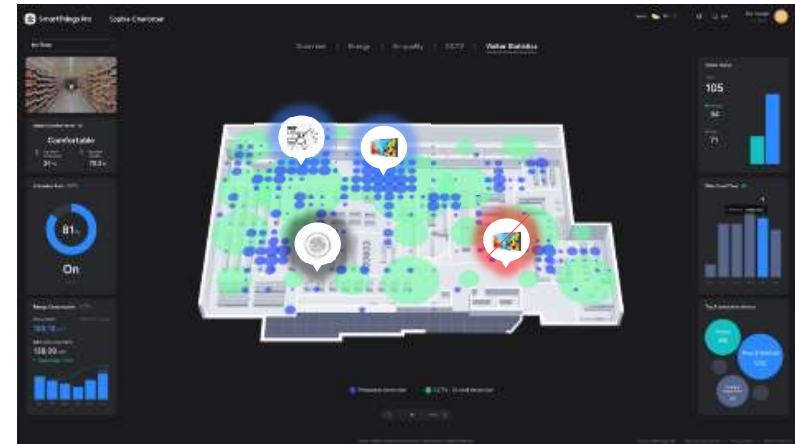


Enhanced customer journey

2025 November

Make decisions to drive higher customer satisfaction and engagement based on the mapped customer journey

- Create visitor activity heat maps leveraging CCTV and sensor data and analyze customer dwell time and store congestion
- Automatically adjust HVAC settings based on visitor activity status
- Identify high-traffic areas to place digital signage for maximum visibility



AI Stay ① Personalize guest room experience via QR control

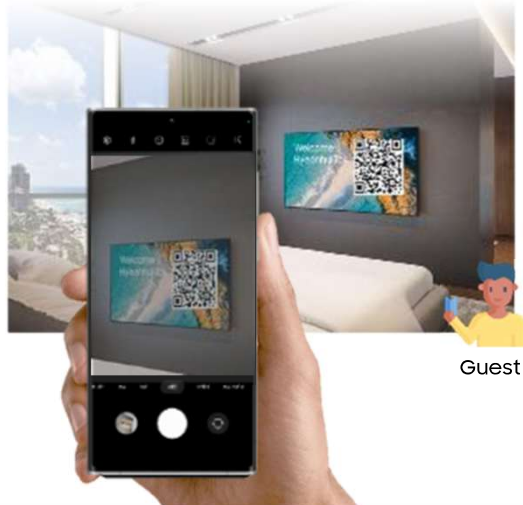
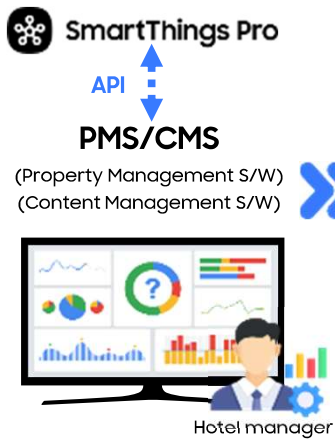
- Provide welcoming and personalized room environment for guests

New welcome experience

2025 November

When guest checks-in, QR code for in-room IoT control is displayed on the TV welcome screen

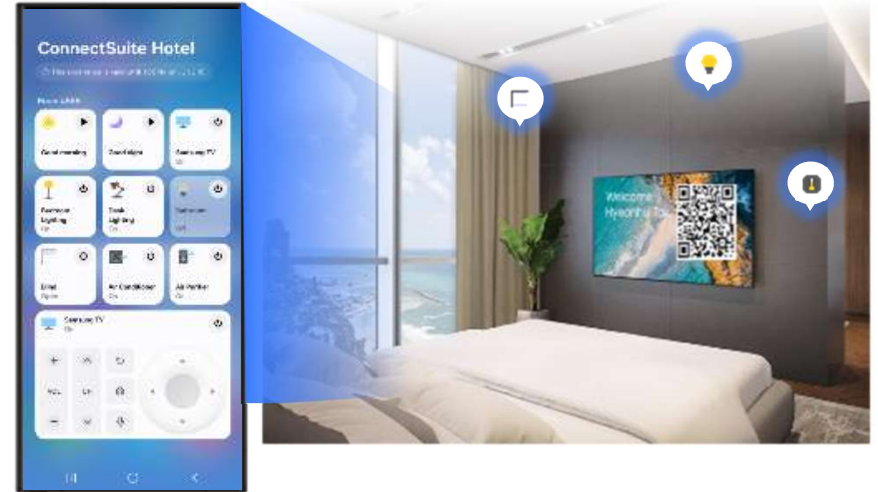
- Guest scans QR code to access webpage for IoT control (no sign-up or mobile app download required)



Personalized room experience

Guests are able to personalize in-room environment with mobile device

- Control devices and customize routines (routine support in November)
- Set guest access expiration date to check-out date



AI Stay ② Understand key factors impacting operational costs

- Uncover the cost drivers behind maintenance and energy usage in hotel operations

Maintenance status & report

Maintain clarity in device diagnostics data to ensure preventive maintenance and optimized budgeting for repair costs

- Quickly discover rooms that need emergency repair with real-time notification on device failure or malfunction
- Utilize monthly analytics on HVAC system failure to schedule necessary inspections before severe property damages



Energy monitoring

Manage critical information on energy performance and identify key areas where energy costs can be reduced

- Track and verify energy usage and costs by each month and group
- Pinpoint which device or rooms, service areas are associated with unnecessary energy expenses, and make adjustments



AI Office ① Streamline meeting room environment settings

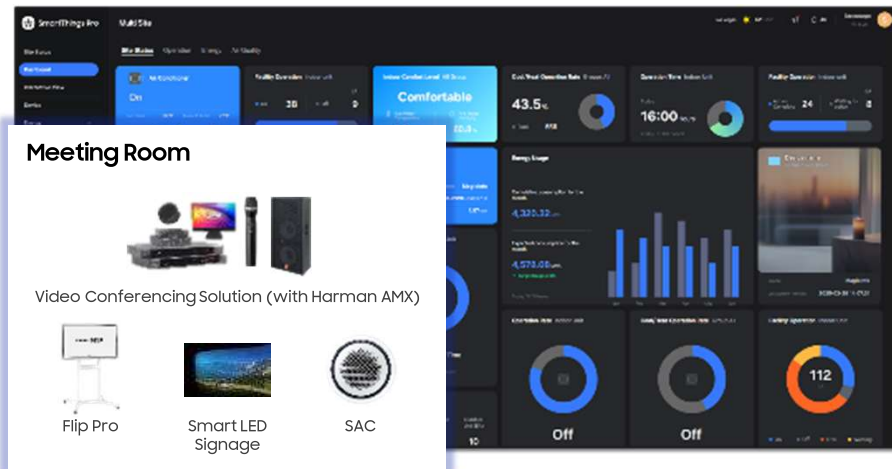
- Build automation flows connecting displays and audio-visual systems

Meeting room system support

2025 November

Integrated with Harman AMX, one of the global audio-visual system providers in the market

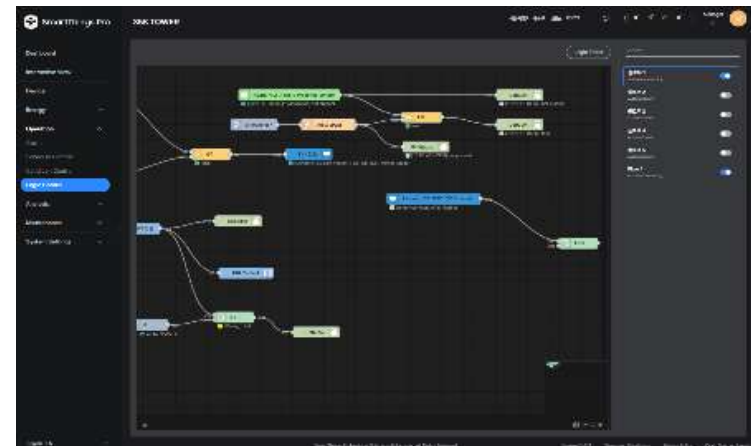
- Harman AMX Muse Controller integrated with SmartThings Pro, allowing video conferencing & audio-visual devices to interoperate



Logic-based automation

Node-RED enabled logic editor to configure automations for meeting room environment

- System Integrators can leverage Node-RED to build programmatic automations linking devices inside meeting rooms
- No additional environment set up work needed for employees



Part 3. Samsung Offering

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Case Studies



[Samsung HVAC Case Study: Core and Shell | DVM S HR](#)



[Case Study_Samsung SmartThings Pro](#)



[Case Study_Samsung bIoT](#)

A close-up photograph of two hands shaking in a firm grip. The hands are positioned in the center of the frame. The person on the left is wearing a dark suit jacket with a light-colored cuff visible. The person on the right is wearing a dark suit jacket. The background is dark and out of focus, featuring several bright blue bokeh lights that create a soft, glowing effect. The overall mood is professional and celebratory.

Thank you