



GLOBAL INSTITUTE FOR
DIGITAL COMPETITIVENES

GLOBAL DIGITAL
WEEK 2023



Jesus Arias

Membership & Business Development



www.gidcomp.org



Smart home and building solutions.
Global. Secure. Connected.

My IoT story

Global Digital Week 2023





500

MANUFACTURERS IN 46
COUNTRIES

Member Companies developing KNX
Products, Solutions and Software

[more info](#)

112919

PARTNERS IN 181
COUNTRIES

Contractors, buildings designers,
installers, integrators who
successfully attended a standardized
KNX basic course at a KNX certified
training centre

[more info](#)

502

KNX TRAINING CENTRES
IN 71 COUNTRIES

Private and vocational training
institutes who have been certified by
KNX to conduct standardized KNX
courses

[more info](#)

177

SCIENTIFIC PARTNERS IN
40 COUNTRIES

Educational and research institutes
that cooperate with KNX and our
member companies

[more info](#)

23

KNX USERCLUBS IN 21
COUNTRIES

Platforms for KNX professionals
where they can exchange user
experiences

[more info](#)

45

NATIONAL GROUPS

Local associations who promote KNX
and organize events in different
regional markets

[more info](#)

24

ASSOCIATED PARTNERS
IN 9 COUNTRIES

International organization that are
strategic mutual alliance partners

[more info](#)

15

TEST LABS IN 7
COUNTRIES

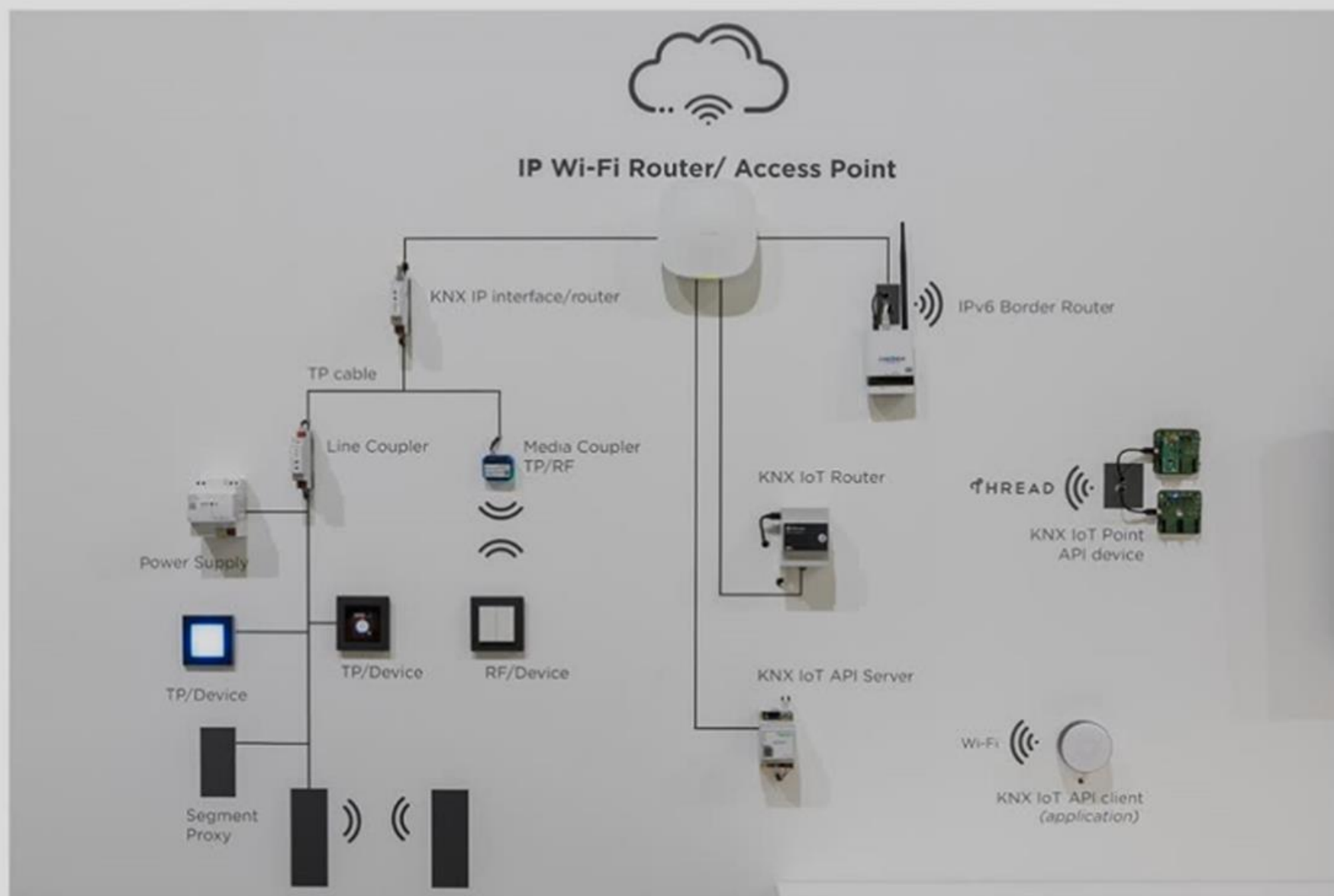
Test laboratories who perform
conformity testing of KNX devices on
behalf of the manufacturers

[more info](#)

Join the KNX
community
yourself.

By creating a MyKNX account you get
access to our software,
documentation, training sessions,
support and more!

[more info](#)





POLITÉCNICA

2000 - 2005

Telefonica





2006 - 2008





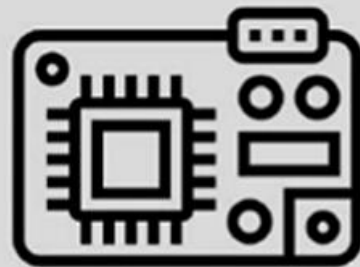
2008 - 2009





•Zennio®

2009 - 2012





2012 - 2015



Exceptional Skills Permit



Flagship project



Gainful Occupation Permit



2012 - 2015



Publicación KNX for LEED



Primer curso KNX Partner en Japón



Technology Roadshows en sudeste asiático



2015 - 2023



Membership, Startups & Business Development



KNX IoT Startup Incubator



Order of Engineers and Architects of Beirut



2021





2021

PARTNERS



SERVICE PROVIDERS



SPONSORS





2021

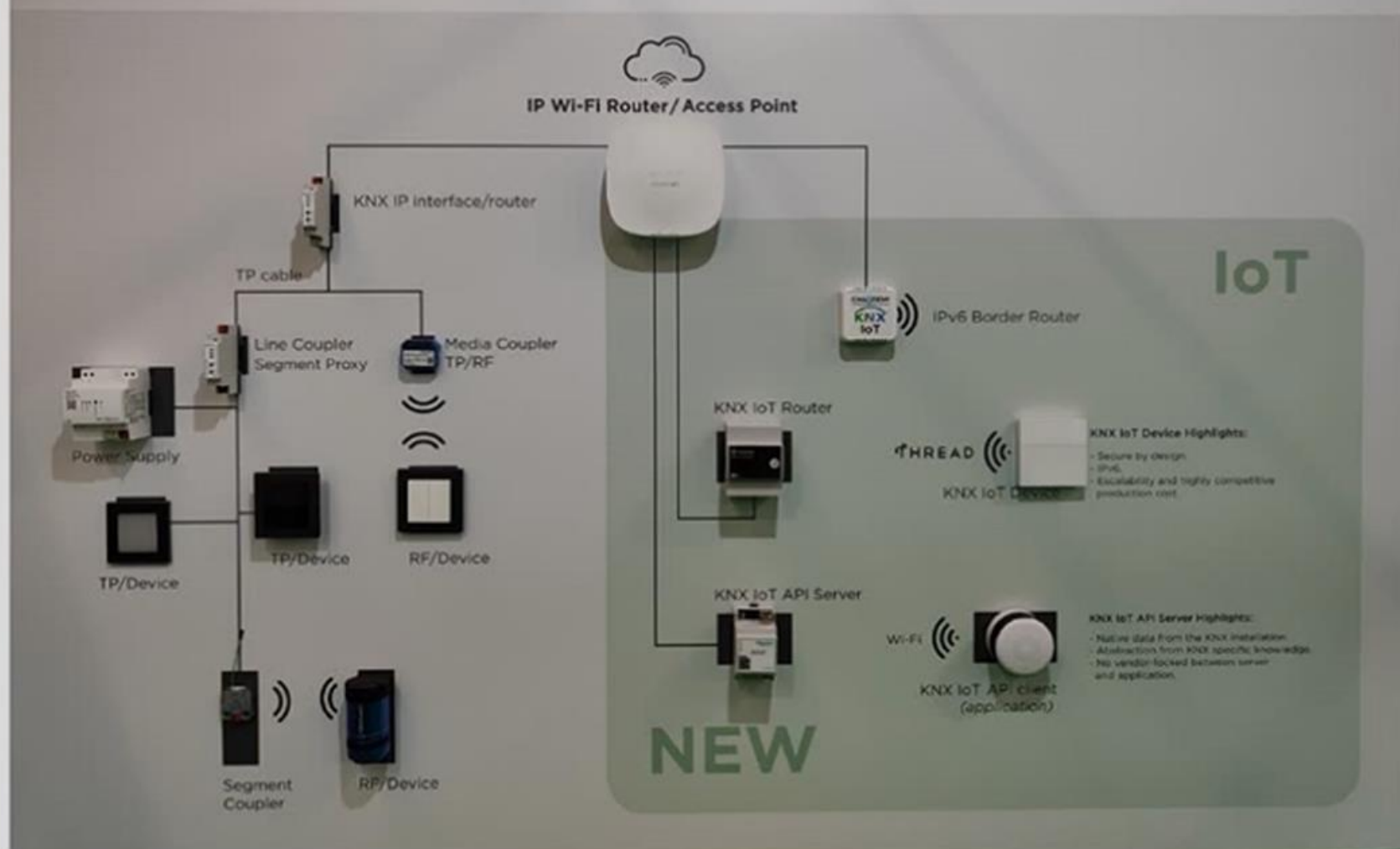




2023

KNX Development Landscape with HVAC Integration

KNX IoT open source stack available



KNX IoT DEVICE



COMPANY

SIEMENS

Siemens AG is a KNX Member since 1990.



Device description

Introducing the latest product from Siemens, the Room Sensor, designed for ventilation and air conditioning plants. This battery-powered sensor, available in QAA2890/W1, QFA2890/W1, and QPA2890/W1 models, provides accurate readings of temperature, relative humidity, and CO₂ concentrations. With temperature accuracy at 30.3...K(21.25 °C, 30.7 K(5.21 °C/25.35 °C, and 31 K(0.15 °C/35.50 °C, and relative humidity accuracy at 32 % rH(50...70 % rH, and 35 % rH(50...30 % rH/70...100 % rH), you can rely on its precise measurements. The CO₂ accuracy is 350 ppm / 32 % m.v. (50...2000 ppm), and the sensor also features automatic baseline calibration (ABC) for CO₂ measurement. Using wireless communication KNX IoT over Thread, the sensor seamlessly exchanges sensor data with controllers and tools over a wireless Thread network, making it an efficient and reliable addition to any ventilation and air conditioning plant.

Application

Indoor Air Quality (IAQ) is a crucial factor for the health, comfort, and productivity of occupants in buildings and homes. IAQ can be affected by various factors, including temperature, humidity, and the concentration of pollutants such as CO₂. Proper control and management of these factors can contribute to a healthier and more comfortable indoor environment. Temperature and humidity levels that are too high or too low can cause discomfort, health issues, and decreased productivity. High levels of CO₂ can also cause drowsiness, headaches, and decreased concentration, which can affect productivity and performance. Moreover, high concentrations of CO₂ may indicate inadequate ventilation, which can lead to the buildup of other pollutants. Therefore, it is important to monitor and control indoor environmental factors such as temperature, humidity, and CO₂ to ensure a healthy and comfortable indoor environment. This can be achieved through proper ventilation, air filtration, and the use of sensors and controls that allow for real-time monitoring and adjustments to be made.



KNX IoT DEVICE



COMPANY

PASSIV ENERGIE AUSTRIA

Passiv Energie Austria GmbH is a KNX Startup since 2022



Device description

The Heating Recovery Ventilation system is a state-of-the-art device designed to deliver the highest level of comfort and air quality for homes and buildings. With the HRV unit on/off feature, users can easily control the system and customize the ventilation level according to their needs. The fan speed can be set from step 1 to 4, while the CO₂ measurement, temperature measurement, and humidity measurement provide accurate readings for maintaining indoor air quality. The system also includes a Dampers on/off feature and a standard supply air device/exhaust air device to define the original operation direction of the fan unit. With the Heat Recovery/night Bypass Mode operation mode, the system ensures efficient heat recovery and air purification during night time. Other notable features of the Heating Recovery Ventilation system include the Filter Exchange/Cleaning reminder, CO₂ Control On/Off, Humidity Control On/Off, alternating period time, direction of operation (Supply Air/Exhaust Air), attached room name, Bath Room Mode On/Off, and Open Jammy Operation to increase indoor pressure and prevent smoke backflow. The Sleep Mode On/Off feature also reduces noise pollution in bedrooms by turning off the fans for one hour before turning them back on again. The Heating Recovery Ventilation system provides a safe and efficient solution for homes and buildings to maintain healthy indoor air quality.

Application

Heat Recovery Ventilation (HRV) is a solution that is gaining popularity due to the increasing demand for indoor environmental quality. Certifications like LEED or Passivhaus have brought attention to the importance of providing healthy ventilation in homes and buildings, as it is also critical in preventing moisture issues inside the dwellings. HRV systems have become increasingly important over the years as part of HVAC solutions, and they benefit from being integrated into the home and building automation system, with CO₂, humidity, and temperature measurements.

