



Sensors Converge 2023

Building Integrated
Infrastructure Management System

MAGIC8



Thank You!...

Exciting edge computing application

Partnering with industry leaders...



www.cratustech.com

www.cratustech.com/asset-rx-edge



Sensors Converge



Half Day Pre-Con Workshop:
The Smarts Behind Smart Cities & Smart Farms using Sensors in IoT



Zeki Gunay
CEO,
CRATUS Technology



“Can't wait to see you!...”

We are at booth #604

Other Speakers



Peter Walther
WCA
President



Marcel Verheijen
WCA Director



Paul Hoekstra
Mobility
Director
TNL USA



Pui San Tam
Schoolab
Consultant



Andy Do
WCA
Director



Chris King
Director, Sales & Marketin
NEWRCOM

**Sensors Converge Event 2023 / June 20, 2023 @ 8:00 am – June 22, 2023 @ 4:00 pm PDT
Santa Clara Convention Center, Santa Clara CA**



IoT Technologies

Located in San Jose

Engineering Services

30 Team Members

Product Development

10 Years in Business

Product Distribution

System Integration



Edge Computing

ASSET-Rx EDGE

Infrastructure

Smart Cities, Buildings, Homes

Autonomy, 5G and Edge Computing



MAGiC8



 **CRATUS**



Smart Buildings and Facilities

Sensing & Monitoring

Air quality, lighting, climate, security, camera systems, elevators, escalators, predictive maintenance.

Universal Hardware: Off-the shelf industrial computers and SBCs.
 Developed for Industrial & Commercial applications.
 Remote, secure and reliable Orchestration of Models & Applications.
Deploy Massively, Control Uniquely

Multi-Registry
Public / Private



Multi-Cloud
Public / Private



Field Layer
Control Layer
Connectors

ML
Model 1

ML
Model 2

ML
Model 3

Control
Actions,
Business
Logic

Connectors
Integrations
to Local or
Cloud



Ingest Data

Apply One or More Models,
Replace, Swap, Configure

Take Action, Store
and Send Data



WiFi, Bluetooth,
NB-IoT, LoRa

RS-232, RS-485, Ethernet,
IO-Link, CAN Bus, USB3.1,
4-20mA, 0-10V

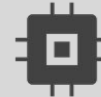
MODBUS, OPC-UA,
EtherCAT, IO-Link,
MQTT(SSL), HTTPS,
TCP/IP, PROFIBUS

HDMI, USB, WiFi

Cameras



Sensors



Diagnostics



Edge - not so obvious use cases

Extremely Low Latency

Bandwidth Savings

Real-Time Decisions

Privacy - Security - Air Gapped On Demand

Reliability - No Internet, No Problem

Scale - Clone & Deploy Massively



Notifications | Solar panel is out an unexpected way... Grid is out an unexpected way... Genera...

Hi User!
Welcome Home. Tonight the weather will be on the chilly side. Indoor quality is excellent!
08:47
10 Sep 2022

+70°F
Outdoor temperature
Partly cloudy weather

35% **60°F**

Climate Control | Living Room
40°F
60°F
80°F
ON

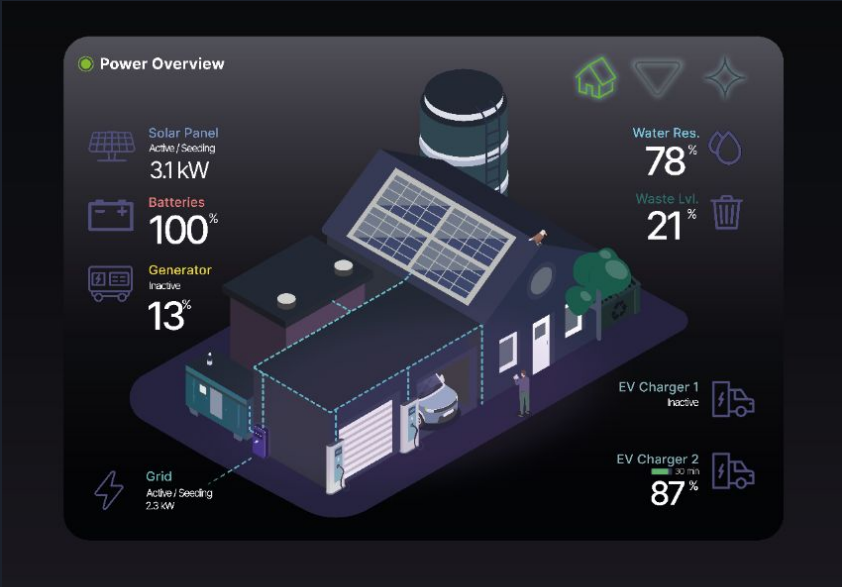
Energy Summary | Today
21 kWh Generated
90% Self-Powered

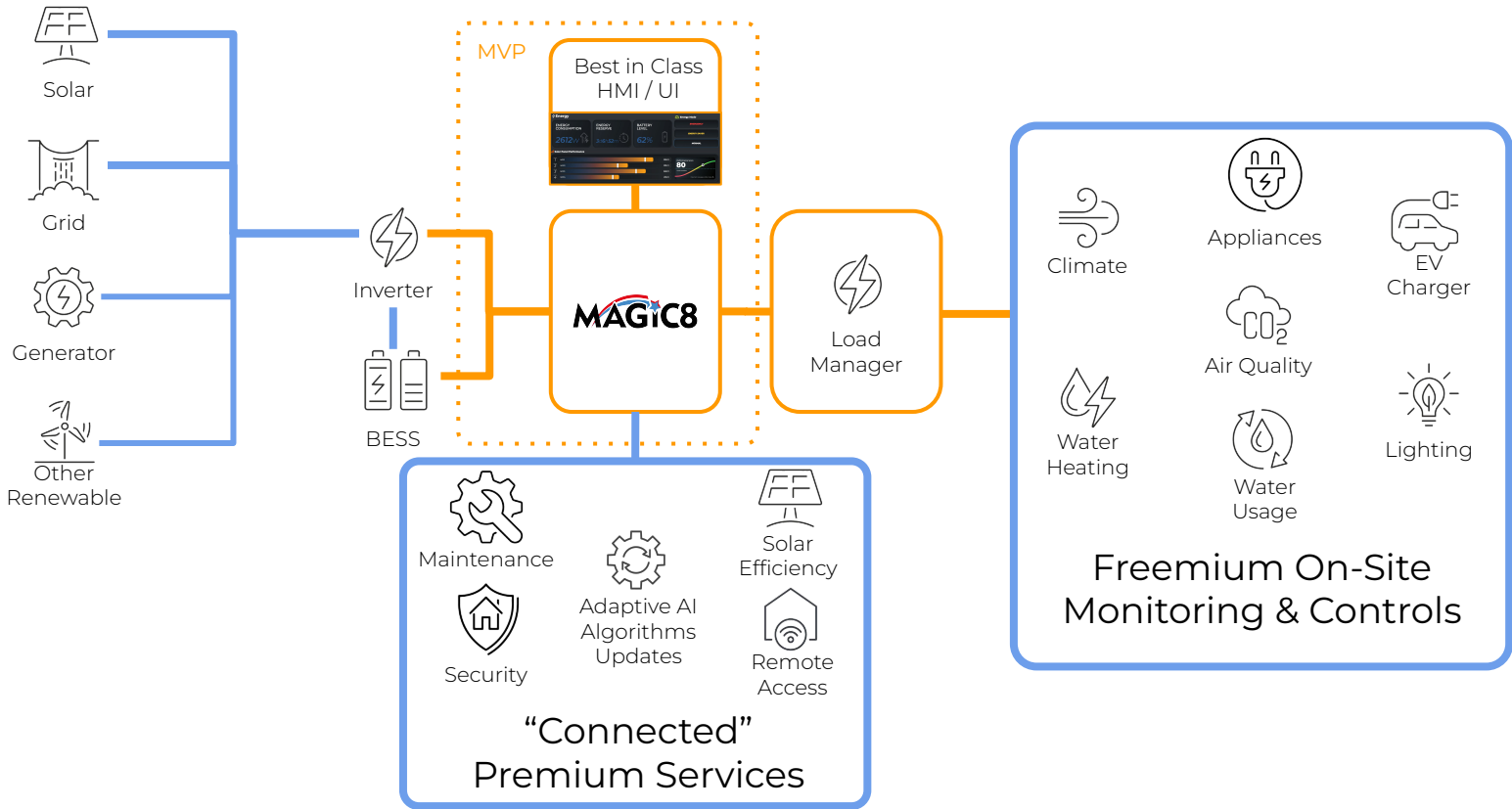
Power Overview

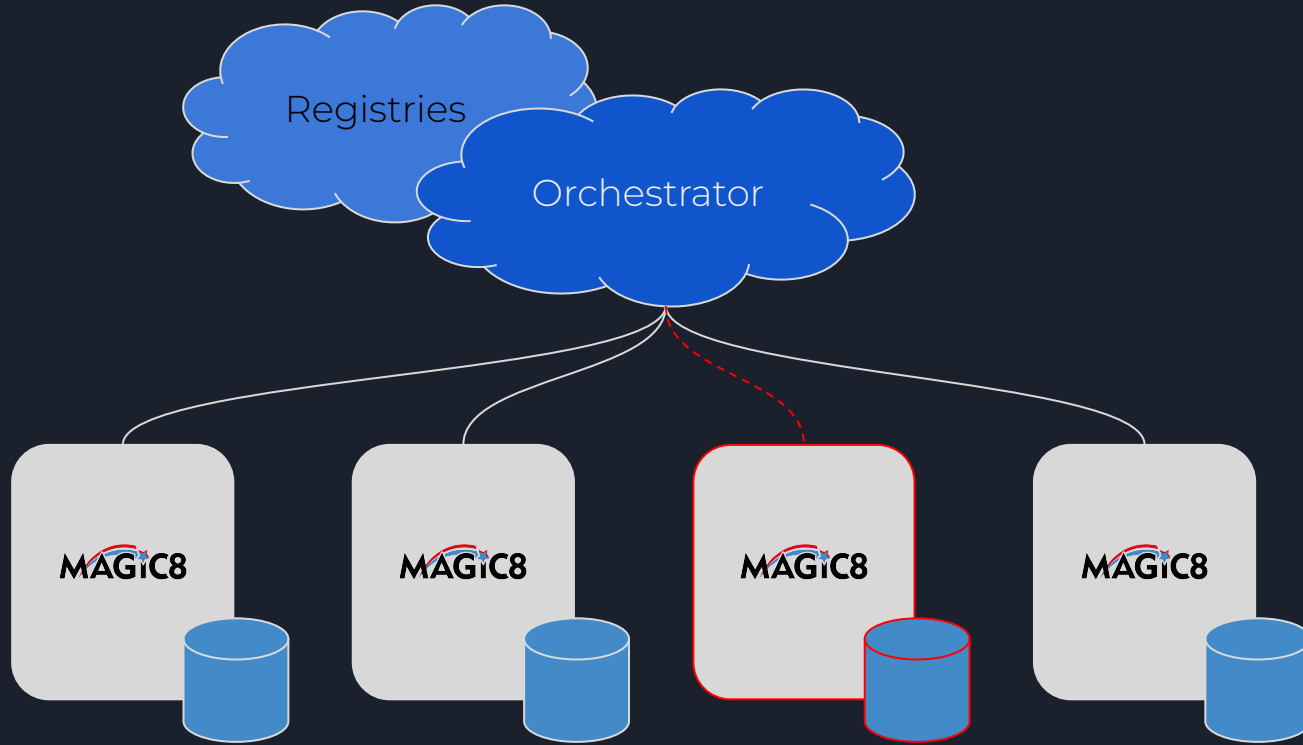
- Solar Panel: Active / Sending 3.1 kW
- Batteries: 100%
- Generator: Inactive 13%
- Grid: Active / Sending 2.3 kW
- Water Res.: 78%
- Waste Lvl.: 21%
- EV Charger 1: Inactive
- EV Charger 2: 87%

Net Performance | Year
18% Grid 82% Live-R

Smart Buildings - Residential







Residential Technology is Broken

We are fixing it with edge computing:

Autonomous Home

Energy: Solar - Wind - Generator - Battery

Water: White - Grey - Black - Irrigation

Climate: Forced Air, Hydronics, Mini-Splits



BOOTH 604

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