



NIAGARA SUMMIT 2026

SEAMLESS CONNECTIVITY,
POWERFUL INTELLIGENCE

NS²₆
CUSTOMERS

TRIDIUM

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10:30AM – 11:20AM | THURSDAY

NIAGARA & WIRELESS TECH FOR ENERGY, OCCUPANCY AWARENESS & OTHER FACILITY MANAGEMENT APPS



TRIDIUM

MODERATOR



David Graf
Tridium Solutions Hub
Leader
Tridium

SPEAKERS

LEAK DETECTION USING
WIRELESS TECHNOLOGY



Brandon Dalida
Regional Sales Director
MultiTech



Sunil Mehra
Board President
600 N Lake Shore Drive

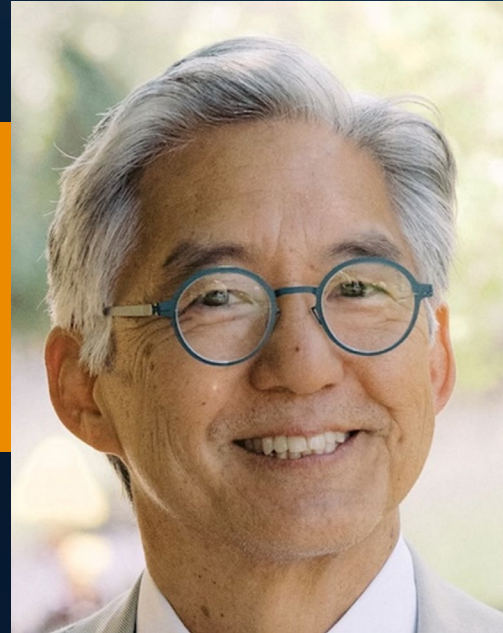
SPEAKERS

BRINGING BMS TO BROWNFIELD SITES
WITH WIRELESS TECHNOLOGY



Mona Singh
Owner/Operator

CUSTOMER



Chuck Han
CTO, Candela

SOLUTION



Albert Teixeira
DTS Controls Manager,
Western Allied Mechanical

DELIVERY

CASE #1

LEAK DETECTION USING WIRELESS TECHNOLOGY



Case Study:

600 N Lake Shore Drive

Situation

- \$3M+ water damage losses

Challenge

- Need access to data on leaks
- Want leak detection to work within our current BMS
- Require seamless deployment and support

Result

- Preventive maintenance
- Proactive, resident-first management
- Sense of security: “We catch issues before they flood your home”
- Faster resolution yields higher resident retention
- Reduce IAQ complaints from mold
- Trusted partners in MultiTech



Impact of Water Damage

#1 multi-tenant insurance claim category
(2023 NMHC Survey)

72% of multi-tenant building insurance claims
(2024 NMHC Survey)

50% of commercial real estate insurance claims
(McGuire)

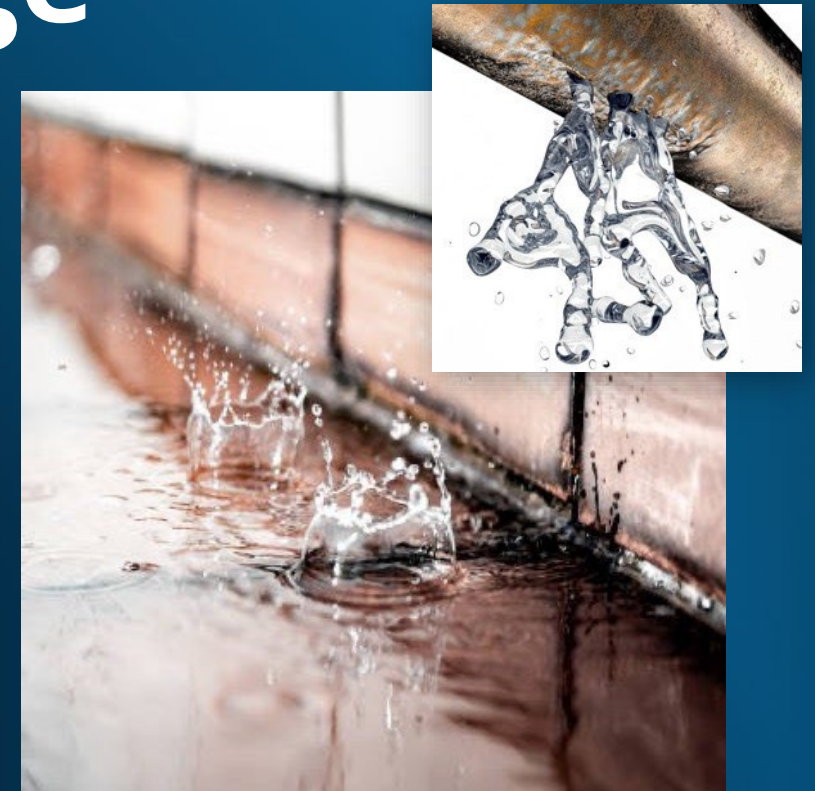
3X claim size compared to those
without water damage

\$20 billion annual property losses
(Lexis/Nexis)

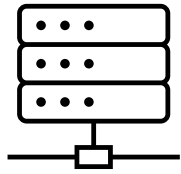
Disruption to tenants

Increased cost of insurance due to numerous claims

Negative building brand (“naughty building syndrome”)

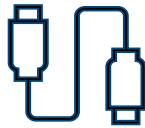


Challenge: Adding Leak Detection Sensors



How do we
capture
new data on an
existing BMS?

ADD WIRED SENSORS



CABLING INFRASTRUCTURE



COST TO RETROFIT



LONG TERM FLEXIBILITY

ADD WIRELESS SENSORS



PROTOCOL COMPATIBILITY



CYBERSECURITY

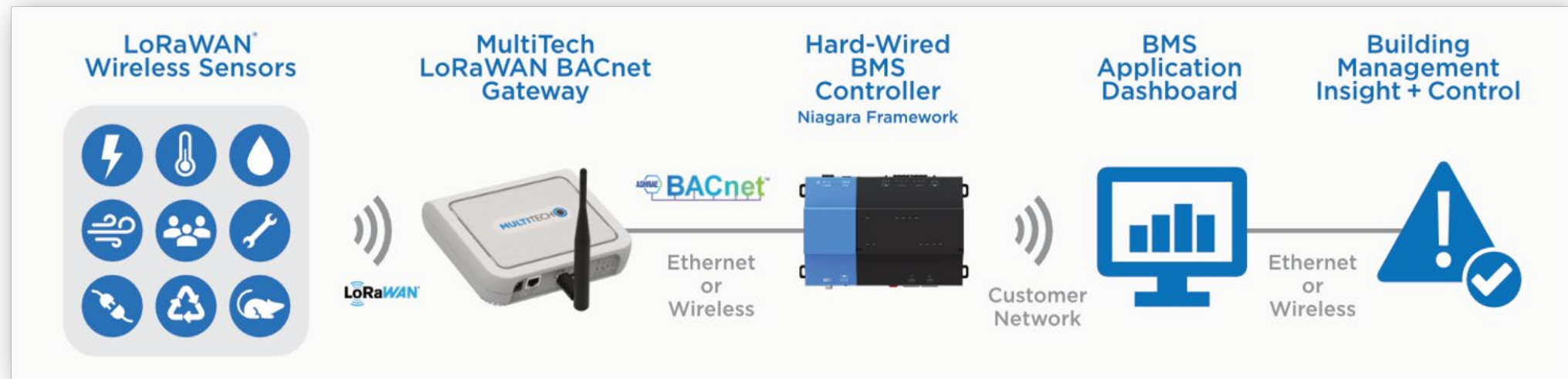


BMS INTEGRATION

Solution: MultiTech Solutions + Niagara Driver

Send LoRaWAN® sensor data directly into Niagara

- Easy integration
- Affordable
- Not disruptive
- Reliable
- Secure



The Right Solution



Maximize Your Niagara Investment

- Keep all data within the Niagara framework
- Add sensors for leak detection
- Easily add more types of sensors from the LoRaWAN[®] ecosystem
- Future-proof Niagara with MultiTech
- Affordably address energy monitoring, sustainability, occupancy, air quality, and more

CASE #2

BRINGING BMS TO BROWNFIELD SITES WITH WIRELESS TECHNOLOGY



CUSTOMER: Context, Goals, Returns

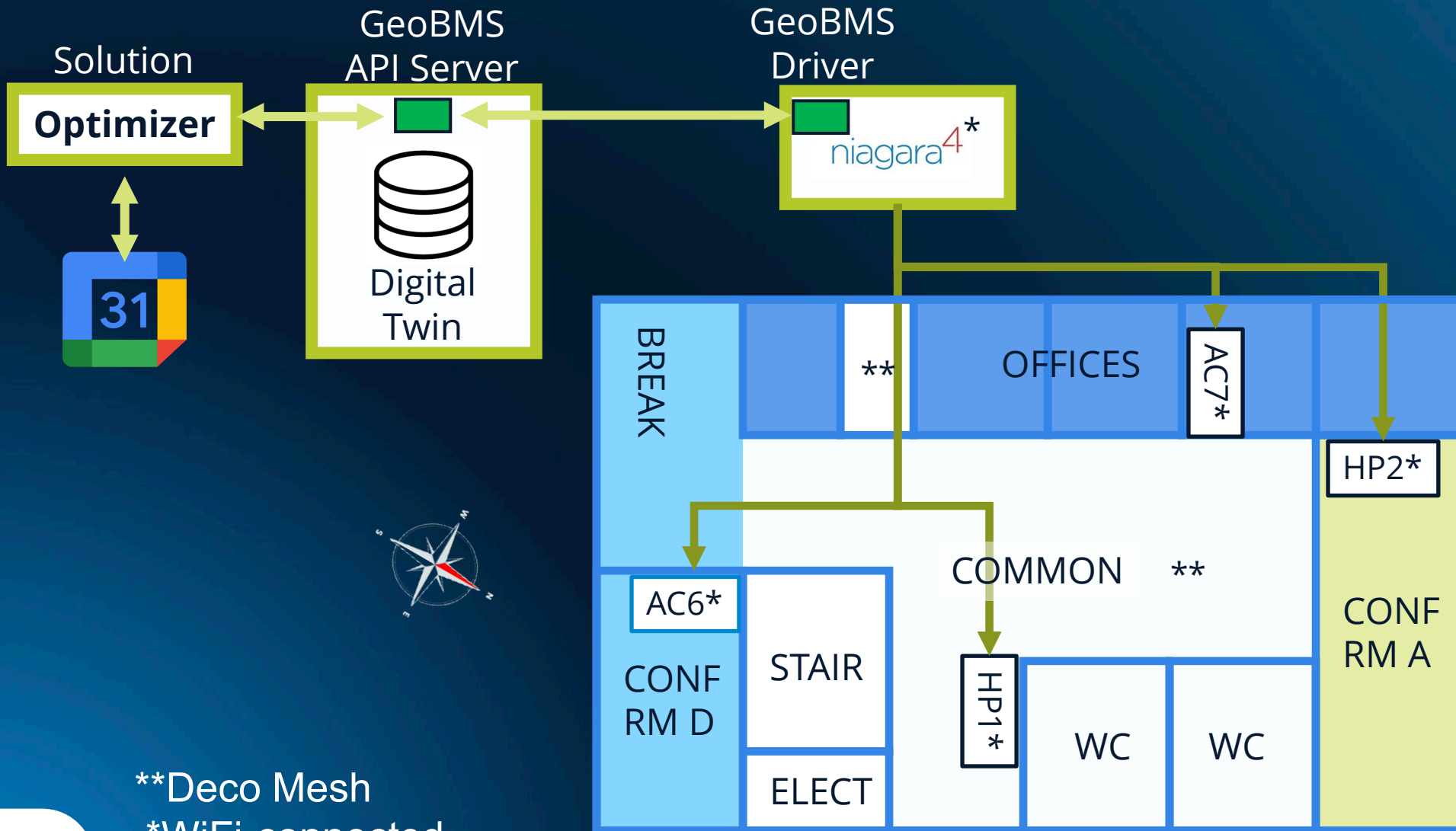


- 3-story multi-tenant office in Palo Alto
- Awards:
 - AIA Santa Clara Valley Citation Award 2012
 - City of Palo Alto ARB Award 2010
- Energy Optimization Solution Results:
 - Returns: 25% monthly savings (2 x SOW)
 - Activation:
 - < 1 week activation (2nd Floor)
 - 2-day extension (3rd Floor)
- Contract:
 - 70-30 savings split
 - Month 2 payback





CUSTOMER: Context, Goals, Returns







SOLUTION: Architecture



2nd Floor (shown):

-  Zone HP1
-  Zone HP2
-  Zone AC6
-  Zone AC7

3rd Floor:

-  Zone AC1
-  Zone AC2
-  Zone AC3
-  Zone AC4

**Deco Mesh
*WiFi-connected

SOLUTION: Brownfield Assessment

- Floor-Isolated WiFi
- No BMS
- No BACnet Thermostats



SOLUTION: Brownfield Upgrades

- ✓ Deco Mesh for full building coverage
 - ✓ ✓ Niagara on WiFi network
 - ✓ ✓ Contemporary Controls BAST WiFi Thermostats
-
- ✓ Western Allied Installation
 - ✓ Candela Deployment

SOLUTION: Brownfield Enhancements

- ✓ **GeoBMS (API Server and Niagara Driver)**
 - ✓ **GeoBMS-Niagara configuration**
 - ✓ **Optimizer-GeoBMS configuration**
-
- ✓ **Candela Deployment/Configuration**

SOLUTION: WiFi Lessons Learned

- Iteratively optimize Deco Mesh parameters
- Static IP addresses for WiFi Thermostats (obvious)
- Hardwire Niagara Server instead of WiFi deployment
- Beyond BACnet WiFi devices w/Http Client Driver:
 - Google Home
 - Home Connect
 - Custom (Tesla, LG, MyQ, Wolf, etc.)

DELIVERY: Solution Deployment Workflow



✓ Installation

✓ WiFi Mesh

✓ WiFi Thermostats

✓ Installation

✓ Digital Twin

✓ Configuration

✓ Training

✓ Reporting

✓ Support

✓ Western Allied

✓ Candela

DELIVERY: Solution Deployment Workflow



✓ Installation

✓ WiFi Mesh

✓ WiFi Thermostats

✓ Installation

✓ Digital Twin

✓ Configuration

✓ Training

✓ Reporting

✓ Support

✓ Future Models can be Distributor-Led

QUESTIONS?



Thank You

