



Connected Home Council (CHC) Webinar

Thursday, July 8, 2021, 12 NOON – 1:30 PM (ET)

Chair: Eric Harper (Snap One)

Vice-Chair: Jim Hunter (Delos Living LLC)

Vice-Chair: Byron BeMiller (Semtech Corporation)

Vice-Chair: Charles Hume (Southwire Company, LLC)

Connect to what's next™

www.caba.org

1. Agenda

Greg Walker (CABA)

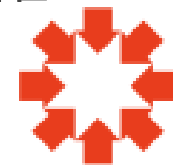
CHC Webinar

“The Connectivity Standards Alliance Unveils Matter, Formerly Known as Project CHIP” (30 min)

- Jim Hunter (Delos Living LLC) – Moderator
- Michelle Mindala-Freeman (Connectivity Standards Alliance)

CHC Meeting

1. Agenda
2. CHC Meeting: Call to Order, Welcome, Introductions, about the CHC
3. Administrative
4. Research Update
5. White Paper Sub-Committee Update
6. New Business
7. Adjournment



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Michelle Mindala-Freeman (Connectivity Standards
Alliance)





It's time to Connect

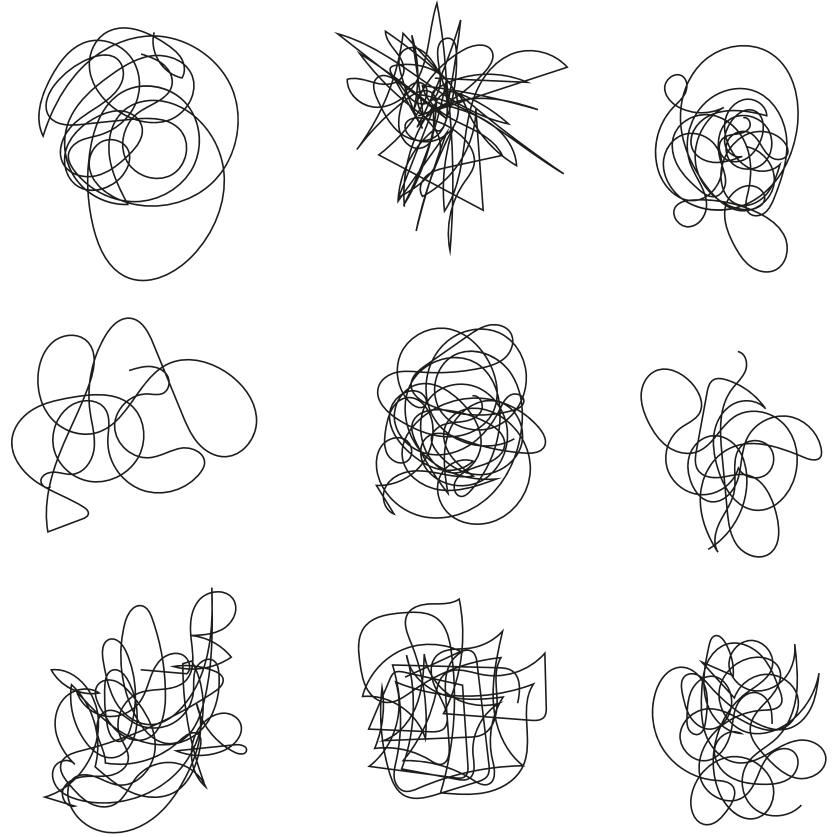
Michelle Mindala-Freeman

Head of Marketing, Connectivity Standards Alliance



IoT should positively transform the way we live, work, and play.

Complexity, closed ecosystems and challenges of accessibility, security and trust have held back progress.

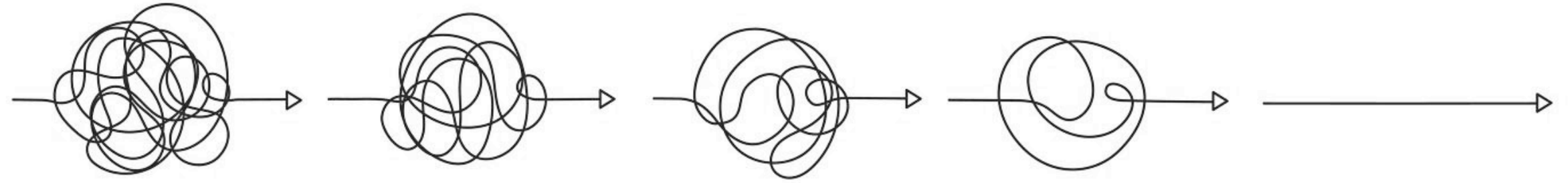




- 19% of people believe tech companies are designing products and services with their best interests in mind
- 63% of people think their connected devices are “creepy”
- Just over half say they do not trust devices to handle their information

* 2020 Digital Attitudes Report, Doteveryone;
** Consumers International





The Alliance has been dedicated to leading the way to **simplify** the complex and create an open path to **IoT adoption** and innovation. To promote universal open standards to enable all objects to securely connect & interact.



Global, unifying, expansive

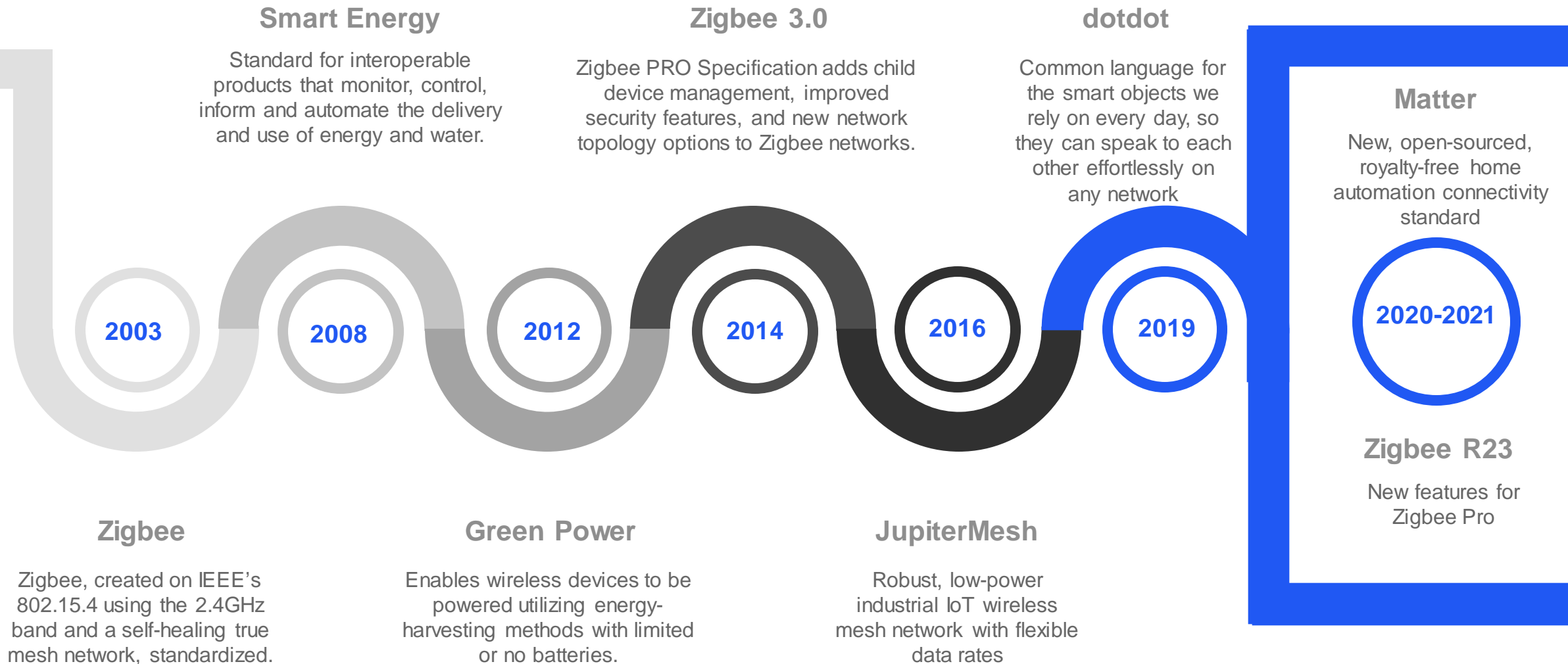
Guiding the IoT forward

Simplifying and harmonizing standards

Fostering unprecedented collaboration

Building a better, more connected world

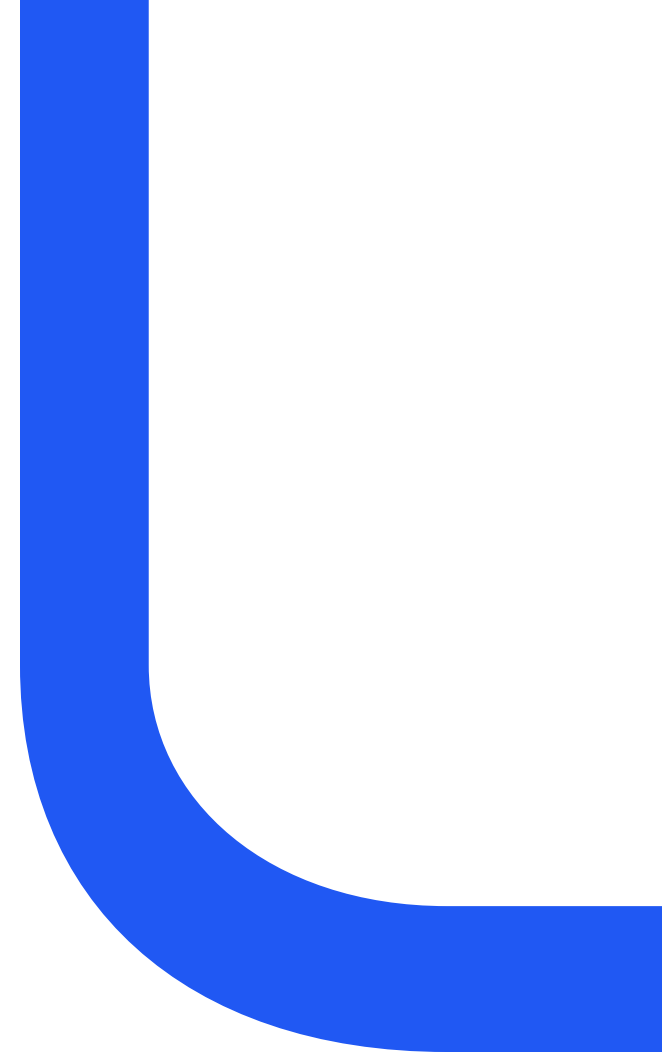
History of Our Technology Expansion



And we have continued to grow, expand and evolve

- Technology Working Group Expansion
- Member retention and growth
- Certification Acceleration
- Global and Industry Reach
- Two regional Interest Groups
- Four industry stakeholder Groups

Matter



Matter: Our Ambitious Vision

- Address key pain points for interoperability, choice and ease of use
- Enable easier, faster, less costly IoT product development and innovation
- Ease and improve the retail / customer purchase experience
- Enable greater and more accelerated adoption in smart home, building and commercial uses



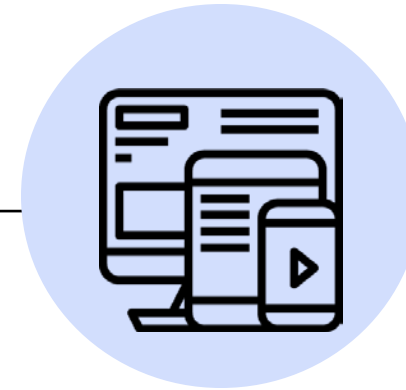
We're Setting the Standard for Standards Delivery



- Project announcement
- Working group formation
- Technology accelerators



- 3 Subgroups
- 30+ Subcommittees
- 180 Member organizations
- 1,700+ individual Members
- Endless passion, patience and expertise



- Test events in process
- GitHub reference implementations
- Feature-complete base spec ratified by Working Group members
- Certified devices end 2021



- The foundation for connected things
- A seal of approval that devices will work seamlessly together today & tomorrow
- Simplifying development for manufacturers and increasing compatibility for consumers.



Simplicity – Interoperability – Reliability - Security

How we stack up

Common application layer + data model

Interoperability, simplified setup & control

IP-based

Convergence layer across all compatible networks

Secure

AES-128-CCM encryption with 128-bit AES-CBC

Open-source development approach

Based on market-proven technologies

Common protocol across device and mobile

Extendible to cloud

Common data model

Core operational functions, multiple device types

Low overhead

MCU-class compute, <128KB RAM, <1MB Flash





Creating Experiences that Matter

Consumers

- More consistent set up experience
- Multi-Admin works across & with multiple ecosystems

Developers

- Develop once / deploy everywhere
- Secure-by-design approach
- Community of support

Retailers

- Simplified purchasing experience
- Minimized returns

Commercial / Builders

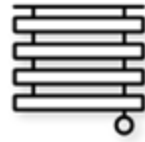
- Future proofed ecosystem compatibility
- Flexibility for users



Target device types



Lighting, Electrical



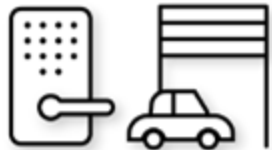
Blinds/Shades



HVAC Controls



TVs



Access Control



Safety & Security



Access Points, Bridges

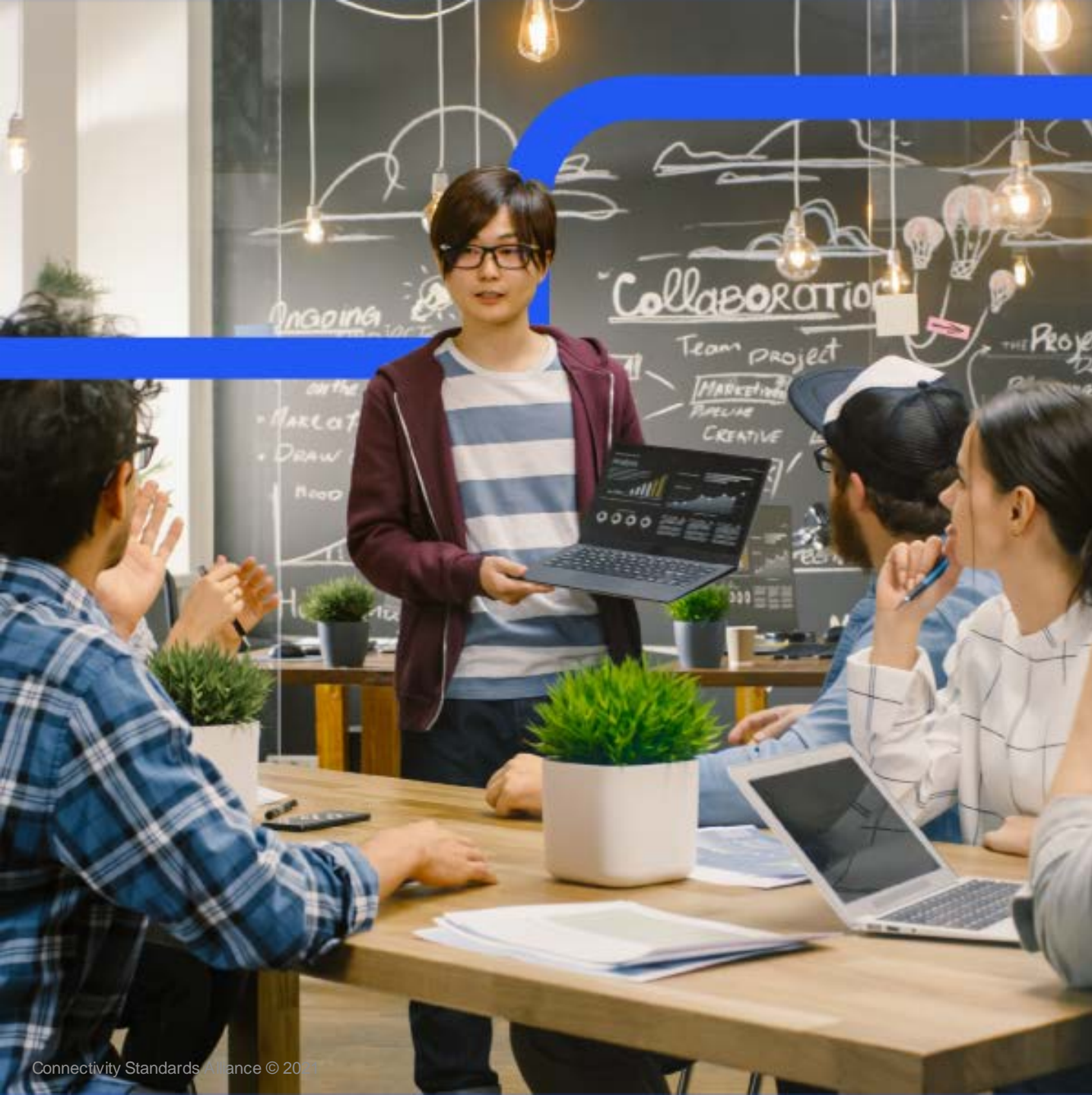


Matter controllers can be implemented in a variety of devices and interfaces

Scoping exercises for additional device types and use cases underway and continual.



What's Next



We're just getting started:

- Matter certification
- Next wave of device specifications
- Zigbee enhancements
- New working groups
- WEF Council on the Connected World



Questions?



rf4ce



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2. CHC Meeting Call to Order, Intros, About the CHC

Eric Harper (Snap One)



CHC Chair
Eric Harper
SVP, Product Marketing &
Markets
Snap One



CHC Vice-Chair
Byron BeMiller
Director, Wireless
Marketing
Semtech Corporation



CHC Vice-Chair
Jim Hunter
Chief Technology Officer
Delos Living LLC



CHC Vice-Chair
Charles Hume
Director of Digital Power
Technologies
Southwire Company, LLC



Established in 2004, the CABA Connected Home Council initiates and reviews projects that relate to connected home and multiple dwelling unit technologies and applications. The Council also examines industry opportunities that can accelerate the adoption of new technologies, consumer electronics and broadband services within the burgeoning connected home market. www.caba.org/chc

3. Administrative

Eric Harper (Snap One)

3.1 Motion to approve past CHC Minutes from February 22, 2020:



4. Research Update

Charles Hume (Southwire Company, LLC)

“The Connected Home and AI” 2021 CHC Landmark Research



Automated
Logic

Carrier

resideo

Rheem

Snap
av

5. White Paper Sub-Committee Update

Ken Wacks (Ken Wacks Associates)

5.1 In Progress:

“Part 2: Power over Ethernet (PoE) & Digital Electricity (DE) in Commercial and Multiple Dwelling Residential Buildings”

Sinclair Digital Holdings (Chair)

Axis Lighting

Contemporary Controls Systems, Inc.

Ken Wacks Associates

LumenCache, Inc.

National Electrical Manufacturers Association (NEMA)

National Research Council Canada Association (TIA) (NRC)

Public Services and Procurement Canada

Renesas Electronics America Inc.

Somfy Systems, Inc.

Southwire Company, LLC

Telecommunications Industry Association (TIA)

UL LLC



5. White Paper Sub-Committee Update

Ken Wacks (Ken Wacks Associates)

5.1 In Progress:

“Human Centric Lighting: Non-Energy Benefits of Lighting and its Smart Controls”

ArcoLogix LLC

Human Centric Lighting Society

Ken Wacks Associates

Legrand

Mecho

National Electrical Manufacturers Association

(NEMA)

SnapAV

Syska Hennessy

UL LLC



5. White Paper Sub-Committee Update

Ken Wacks (Ken Wacks Associates)

5.1 In Progress:

“Connected Home Cybersecurity Regulations”

P.A.ID Strategies (Chair)

AgeLight LLC

BC Hydro

exp. US Services, Inc.

LonMark International

Mission Critical Global Alliance (MCGA)

National Research Council Canada (NRC)

Smart Buildings SuperCluster (SBSC)

Sustainable Resources Management Inc.

TwelveDot Inc.

UL LLC



5. White Paper Sub-Committee Update

Ken Wacks (Ken Wacks Associates)

5.1 In Progress:

“Part 2: The Evolution of Integrating LiFi Technology into Smart Lighting and Control Systems for the Intelligent Building”

Wharton County Junior College (Chair) Association (TIA)

Acuity Brands, Inc.

ArcoLogix LLC

SnapAV

Ken Wacks Associates

National Electrical Manufacturers

Association (NEMA)

Telecommunications Industry



5. White Paper Sub-Committee Update

Ken Wacks (Ken Wacks Associates)

All proposals and previously completed CHC White Papers can be downloaded at:
www.caba.org/whitepapers



CABA
Research Program

6. New Business

Byron BeMiller (Semtech Corporation)

6.1 Other new CHC business?



7. Adjournment

Eric Harper (Snap One)

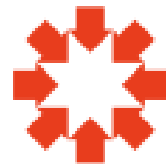
Next CHC Meeting: September 2021

Continental Automated Buildings Association (CABA)

caba@caba.org

www.CABA.org

www.caba.org/chc



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