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# Hazardous Location Wireless, Expanded

Anthony Savaglio // Product Manager // IoT Wireless Ali Samioglu // Leader, Systems Engineering // GVS-SE MEA

BRKIOT-1086



## Cisco Webex App

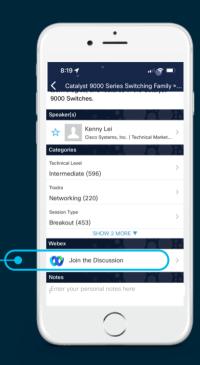
#### **Questions?**

Use Cisco Webex App to chat with the speaker after the session

#### How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click "Join the Discussion"
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until June 17, 2022.



https://ciscolive.ciscoevents.com/ciscolivebot/#BRKIOT-1086





## Agenda

- Introduction
- Industrial Wireless overview
- HAZLOC & modularity
- Honeywell OneWireless & Emerson 1410S
- Wipelot EagleEye
- Conclusion

## Industrial Wireless Overview



## Industrial wireless is growing



35%
IoT Wireless
Annual Growth
FY15-21



## Coverage for every need





## Cisco Catalyst IW6300 Heavy Duty Series Access Points





## Cisco Catalyst IW6300 Heavy Duty Series Access Points



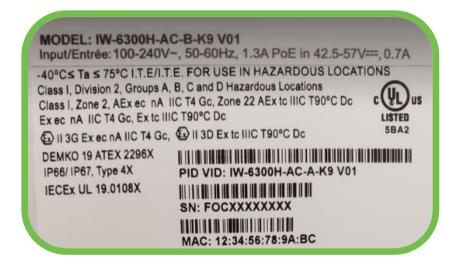
Extend intent-based networking to hazardous environments



# HAZLOC & Modularity



### Class I, Division 2...



...is the US designation.

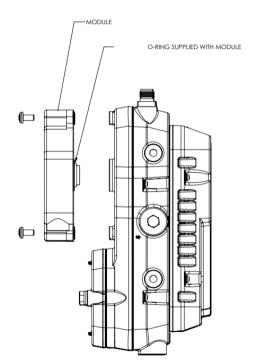
"Class I: Flammable gases, flammable liquid-produced vapors, and combustible liquid-produced vapors

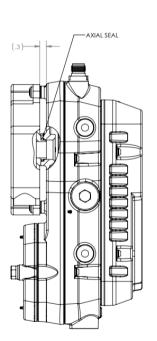
Division 2: Ignitable concentrations of flammable gases, flammable liquid-produced vapors, or combustible liquid-produced vapors are not likely to exist under normal operating conditions" –UL definitions



## Modularity to meet industrial demands

Designed for expansion from Day 0

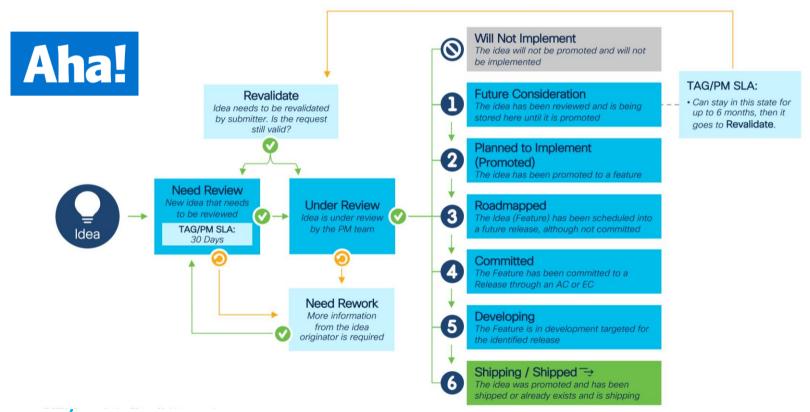




#### MODULE INTEGRATION VIEW



### Share your ideas & needs





## Honeywell & Emerson



## Emerson 1410S



## Honeywell OneWireless







## Support & highlights





#### Wireless Standards

- ISA100 Wireless
- WirelessHART
- 802.11/a/g/n/ac Wave 2

#### Supported Interfaces

- Modbus
  - GCI **HART**
- OPC

- Fnraf
- Experion PKS CDA





#### Sensor Portfolio

- Pressure Differential
- Pressure
- •Flange Mount Pressure
- •Wireless Temperature
- Gas Monitor

- •Wireless IO
- Corrosion Detection
- Flow Meters
- •Fluid Levels
- Vibration Detection



#### The results

\$10K

in installation savings, per instrument

10%

gain in productivity measures

70%

decrease in hardware carbon footprint

## Wipelot EagleEye



### Ali Samioglu Leader of Systems Engineering, GVSE MEA

- 14 years at Cisco in multiple roles; including post-sales and pre-sales
- CCIE RS&DC #29893
- Leading the Eagle Eye project from the incubation to final product



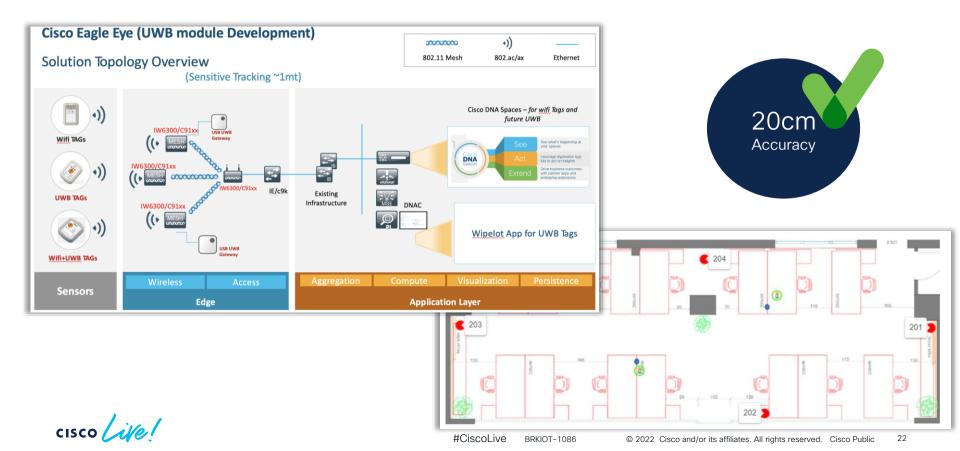


# and introducing... Wipelot EagleEye

- Ultra Wideband location tracking
- Industrial applications include Mining, Manufacturing, and Oil & Gas
- Accuracy up to 20cm
- Enhanced personnel safety and asset accountability



### End to end solution



### Metrics & use cases

- Accurate location information provides detailed route analysis
- Detailed heatmap
- Distance measurement
- Region based idle work hour calculations

- Collision avoidance
- Lone worker safety
- Social distancing
- Environmental monitoring

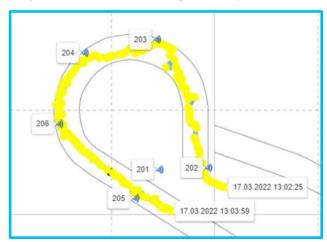


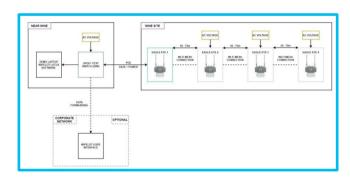


## Mining case study

- Esan ceramic materials mine, Balikesir, Turkey
- Tests: Durability, Meshing, Personnel & Vehicle Tracking
- 120-day uninterrupted endurance & mesh connection
- 15 cm accuracy deviation from control tags
- Successful emergency alarm monitoring & response











### What's next

#### **HAZLOC Certifications**

Blogs / Product Launches / Partner Events

EagleEye website: https://www.wipeloteagleeye.com

Reach out to Ali Samioglu or Anthony Savaglio for any opp.













## **Technical Session Surveys**

- Attendees who fill out a minimum of four session surveys and the overall event survey will get Cisco Live branded socks!
- Attendees will also earn 100 points in the Cisco Live Game for every survey completed.
- These points help you get on the leaderboard and increase your chances of winning daily and grand prizes.



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#### Train



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## Thank you





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