

CISCO *Live!*



#CiscoLive



The bridge to possible

School Safety and Security Powered by Cisco Unified Communications

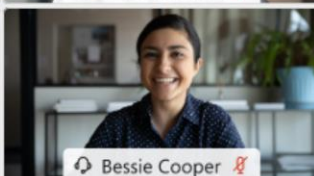
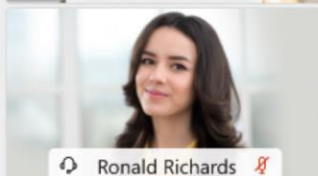
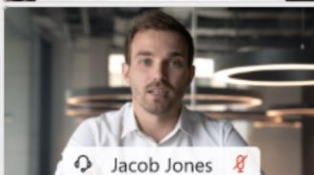
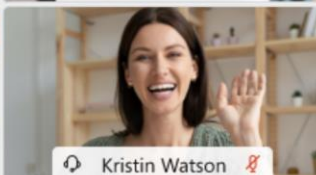
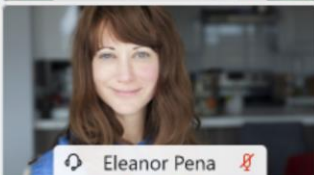
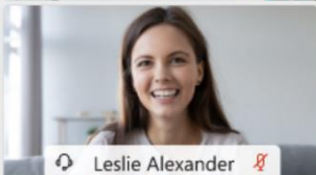
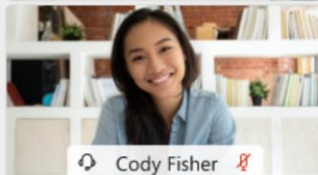
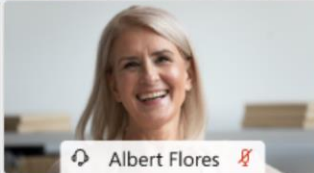
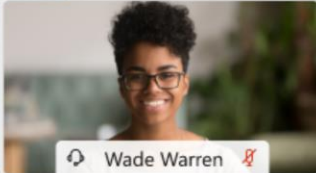
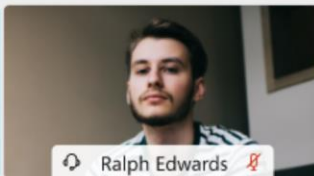
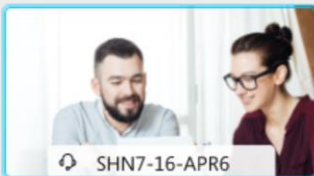
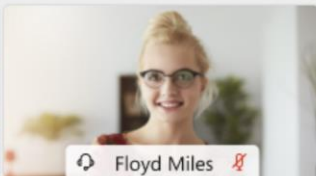
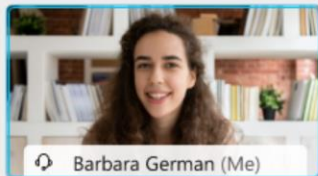
Saugus Union School District, Santa Clarita, CA

Michael Leathers - IT Director, SUSD

David Caren, CCIE #9344 - Systems Architect, Cisco K-14
CSSGEN-1002



#CiscoLive



Cisco Webex App

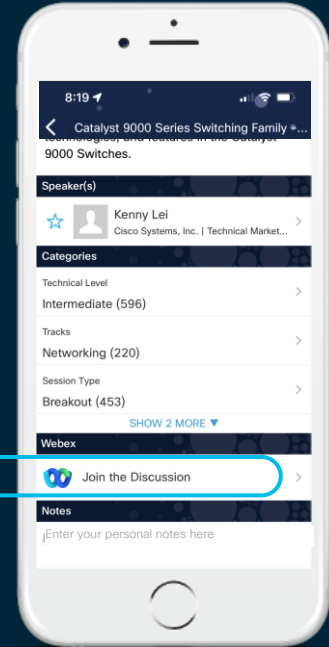
Questions?

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/#CSSGEN-1002>

Your Host



- David Caren
- 1st Time Speaking at Cisco Live
- K-14 Solutions Architect
- 22+ Years at Cisco
- 20 Year CCIE
- dcaren@cisco.com



The star of the show...



- Michael Leathers
- IT Director at Saugus USD
- 40 years experience in IT



Agenda

- Introduction
- Why did we do this?
- Technical Overview
- Demo Video
- Impact on the District
- Conclusion/Q&A

Saugus Union School District



- Established 1908
- K-6
- 15 Schools
- 10,000 Students
- Mix of very old (~1960's) to new (2010's) schools

Why did we do
this?

Why did we do this?

- Some older schools paging systems beyond repair
- Decided to use existing Cisco IP phones
- Then this happened...

Los Angeles Times

CALIFORNIA

Saugus High shooter opened fire on crowded quad in 16-second attack that left 2 dead and 3 wounded, sheriff says



Two students were killed and three other teens were wounded in a shooting at Saugus High School in Santa Clarita on Thursday morning, authorities said.

SUBSCRIBERS ARE READING >

TRAVEL

FOR SUBSCRIBERS

What's happening in Joshua Tree is a 'dream' — and possibly a curse

OPINION

Editorial: Here's a warning, Pasadena. Don't even think about trying to evade SB 9

UCLA SPORTS

Mick Cronin has options if UCLA star Jaime Jaquez Jr. can't play North Carolina

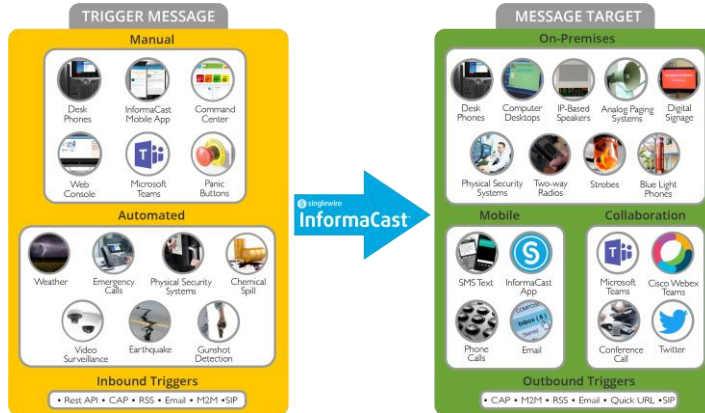
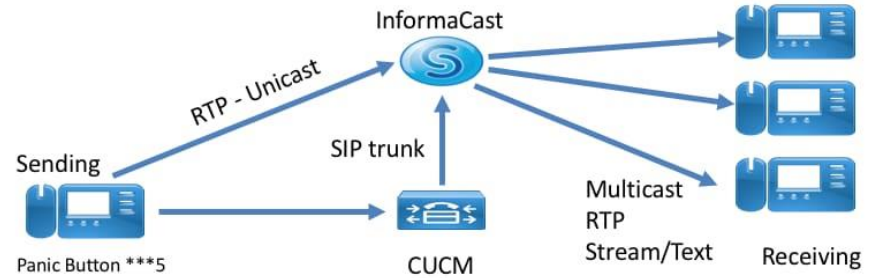
TELEVISION

How 'Bridgerton' wrote Regé-Jean Page out of Season 2

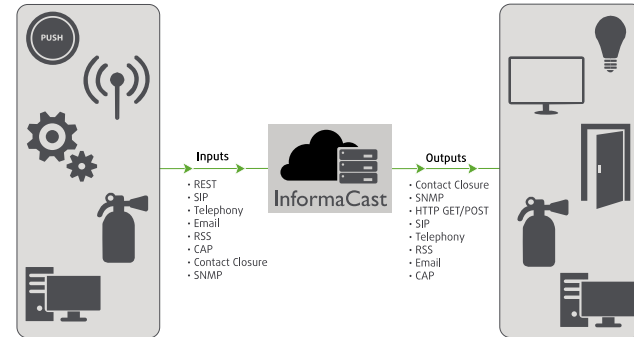
Technical Overview

What is Informacast?

- Paging system from SingleWire
- Included with CUCM for basic paging (Cisco Paging Server)
- Upgrade to Informacast Advanced for integration with external devices...



External Systems Integrations



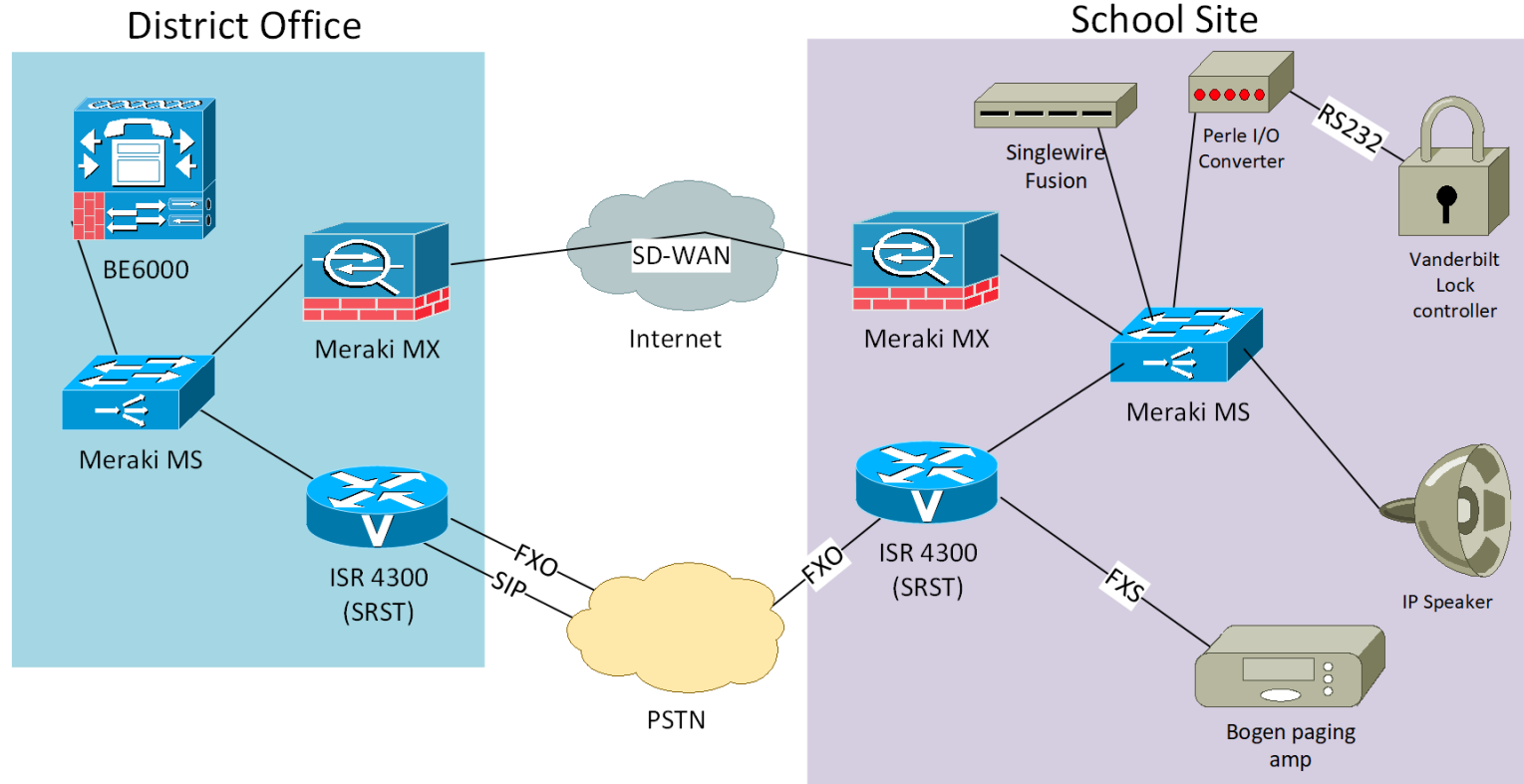
Network Overview

- Full Stack Meraki since 2014
- WAN Connectivity using Meraki SD-WAN (VPN) over 1G Internet links from Spectrum
- Cisco Unified Communications Manager version 10.5
- Cisco ISR Voice gateways

CISCO
Meraki

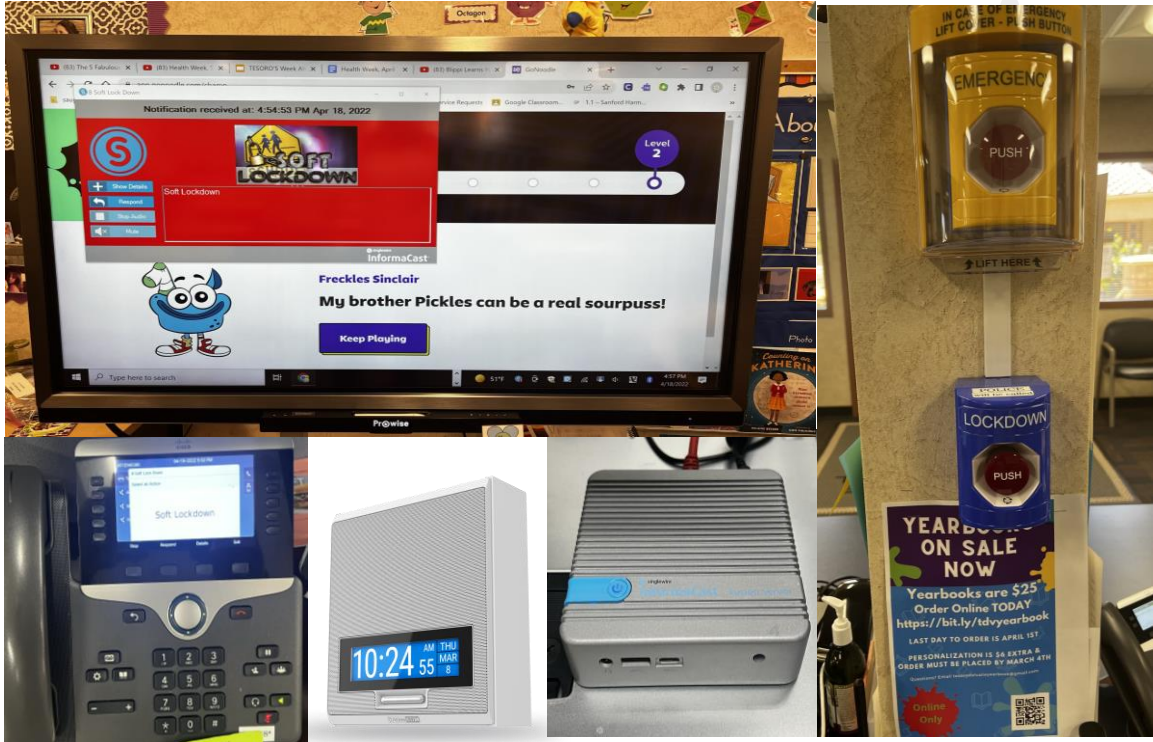


SUSD - High level Architecture



How SUSD uses Informacast

- Paging using existing CISCO Phone System, analog speakers and IP Speakers
- Bell System Replacement
- Emergency lockdown/notification system



PA System integration

- FXS from voice gateway to Bogen PA System
- Zones/Functions on Bogen via DTMF
- Route Patterns on CUCM
- Dial Peers on voice gateway
- Also works in SRST mode

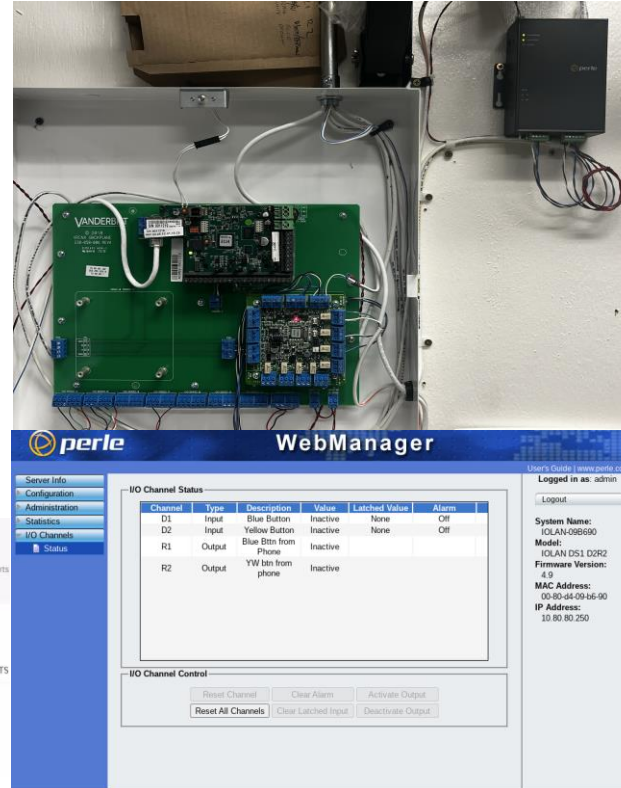
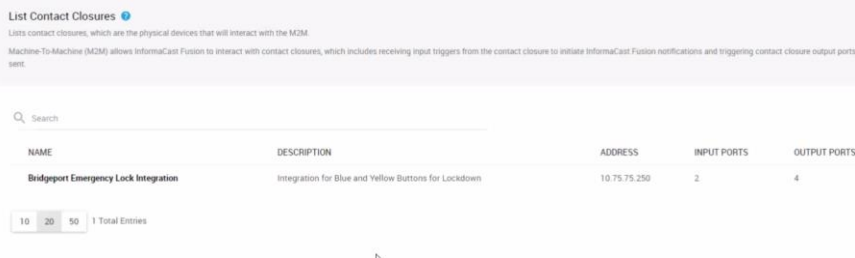


Bell System Replacement

InformaCast							
bridgeport							
+ Denotes Server-specific Configurations							
Home	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Recipients	28	29	30	31	1	2	3
Notifications	Bouquet Canyon						
Notification History	Bouquet Canyon Regular Day	Bouquet Canyon Regular Day	Bouquet Canyon Early Release	Bouquet Canyon Regular Day	Bouquet Canyon Regular Day	[None]	[None]
Message Templates	Bridgeport						
Confirmation Requests	Bridgeport - Regular Day	Bridgeport - Regular Day	Bridgeport - Wednesday Early	Bridgeport - Regular Day	Bridgeport - Regular Day	[None]	[None]
Command Center	CedarCreek						
Tracking Event Notifications	CedarCreek - Regular Day	CedarCreek - Regular Day	CedarCreek - Wednesday Early	CedarCreek - Regular Day	CedarCreek - Regular Day	[None]	[None]
Notification Profiles	Emblem						
Follow-up Message Template	Emblem - Regular Schedule	Emblem - Regular Schedule	Emblem - Wednesday Early	Emblem - Regular Schedule	Emblem - Regular Schedule	[None]	[None]
DialCast	Foster						
CallAware	Foster M,T,Th,F	Foster M,T,Th,F	Foster Wednesdays	Foster M,T,Th,F	Foster M,T,Th,F	[None]	[None]
Scheduled Notifications	Helmers						
Event Sources	Helmers	Helmers	Helmers Early Release	Helmers	Helmers	[None]	[None]
Bell Schedules	Highlands						
Overview	Highlands - Regular Schedule	Highlands - Regular Schedule	Highlands - Wednesday Early	Highlands - Regular Schedule	Highlands - Regular Schedule	[None]	[None]
Ring Lists	NorthPark						
Schedules	NorthPark - Regular Schedule	NorthPark - Regular Schedule	NorthPark - Wednesday Sched...	NorthPark - Regular Schedule	[None]	[None]	[None]
Exceptions	PlumCanyon						
Night Bell	PlumCanyon - Regular Schedule	PlumCanyon - Regular Schedule	PlumCanyon - Wednesday Early	PlumCanyon - Regular Schedule	PlumCanyon - Regular Schedule	[None]	[None]
Admin	RioVista						
Reports	RioVista - Regular Schedule	RioVista - Regular Schedule	RioVista - Wednesday Early	RioVista - Regular Schedule	RioVista - Regular Schedule	[None]	[None]
	Rosedell						
	Rosedell - Regular Day	Rosedell - Regular Day	Rosedell - Early Release	Rosedell - Regular Day	Rosedell - Regular Day	[None]	[None]

Panic Buttons/Door Lock integration

- RS-232 from Vanderbilt to Perle RS-232 to IP converter
- 2-way communication:
 - *Panic Buttons connected to Vanderbilt send signal to Informacast which triggers alerts.*
 - *Informacast sends signal to Vanderbilt to lock doors if lockdown triggered via Informacast*



Pre-recorded message templates

InformaCast bridgeport Denotes Server specific Configurations

Home

Recipients +

Notifications -

- Notification History
- Message Templates**
- Confirmation Requests
- Command Center +
- Tracking Event Notifications
- Notification Profiles
- Follow-up Message Template
- DialCast +
- CallAware +
- Scheduled Notifications
- Event Sources +
- Bell Schedules -

Overview

Ring Lists

Schedules

Exceptions

Night Bell +

Admin +

Reports +

Subject: Emergency Lockdown!

Body: An emergency lockdown has been declared. Police are en-route. Initiate lockdown procedures and wait for the all-clear notification.

Alert Tone: Klaxon

Audio: ☒ Recorded ☐ Text-to-Speech

BROWSE RECORD REMOVE DOWNLOAD

00:00:00:05

Image: BROWSE REMOVE DOWNLOAD

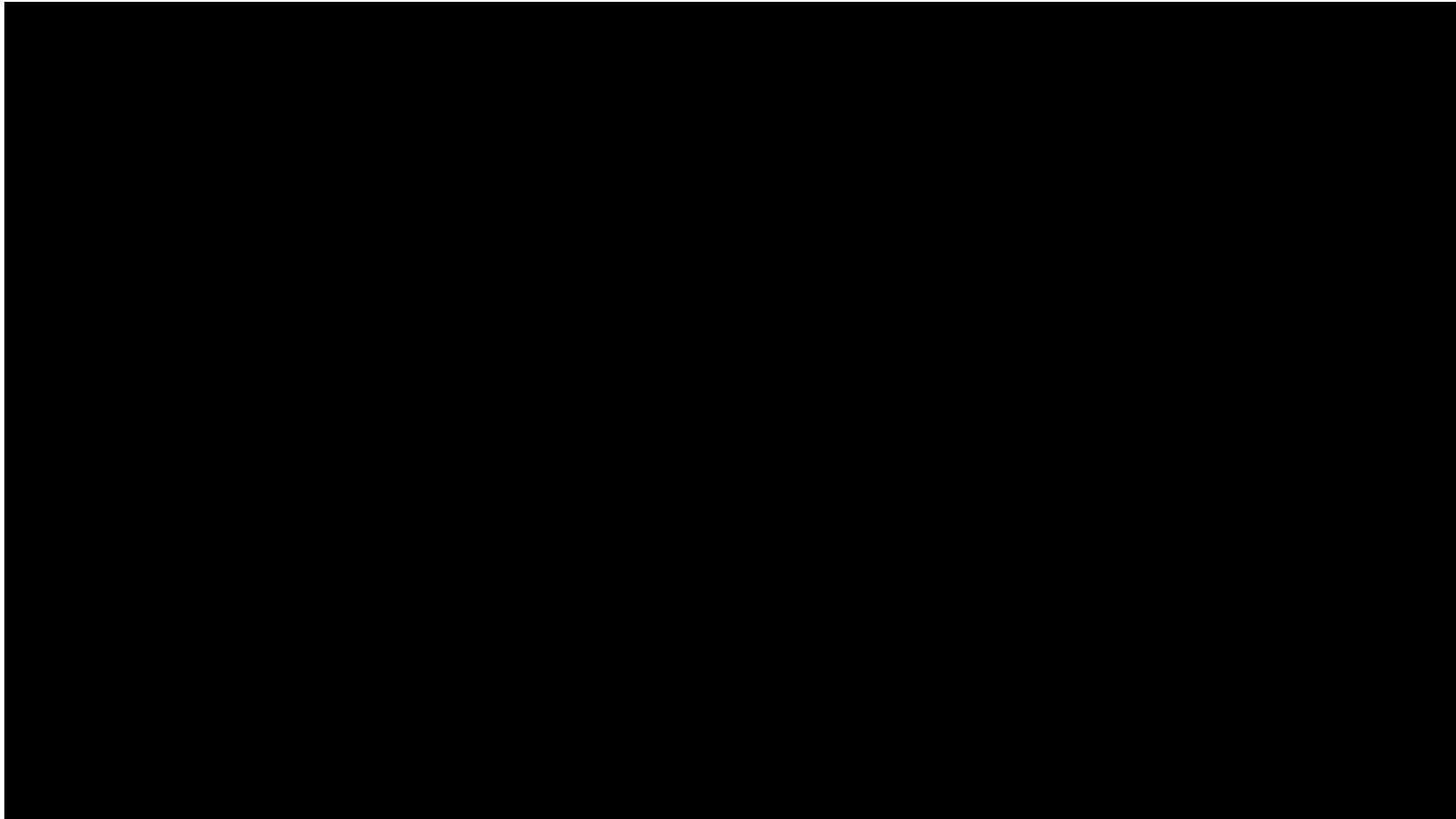
Violent Intruder
Call 9-1-1 when safe to do so.
Alert & Help Others (on you call)
✓ Direct Control (g)
✓ Can't Secure Area (C)
✓ Clear Escape Path
Avoid contact & move to safety
✓ Follow Control (g)
✓ Able to Secure Area
✓ Carry Weapon
Actually keep the situation quiet?
✓ LAST RESORT
✓ Direct Control (g)
✓ Control Room (C)
✓ Risk to Life
Lead officers, Assist & Report back!

Confirmation Request: Emergency Lockdown

Incident Plan: Incident Plan

CANCEL

Demo Video



View video here: <http://cs.co/lockdown>

Impact on the District

Impact on the district

"Automating processes surrounding potential traumatic events is paramount to ensure that we react appropriately and quickly. If pressing one button in an office can lock all doors, notify teachers via a visual phone and integrated flat panel message, alert administration via cell phone application, and immediately alert the Los Angeles Sheriff, then our energy can be devoted to help students and staff."

-Nick Heinlein

Assistant Superintendent of Business



Conclusion

- Take your Cisco UC system to the next level
- Replacing/augmenting existing legacy systems
- Integration with external devices and systems
- Easy implementation
- Increase campus security – save lives

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Booth 2536



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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and certification training

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Cisco Learning Network

Resource community portal for
certifications and learning



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Cisco Learning Partner Program

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Cisco technology and career certifications

Cisco Instructor-led and Virtual Instructor-led training

Accelerated curriculum of product,
technology, and certification courses



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and IT Professionals to advance
their technical careers

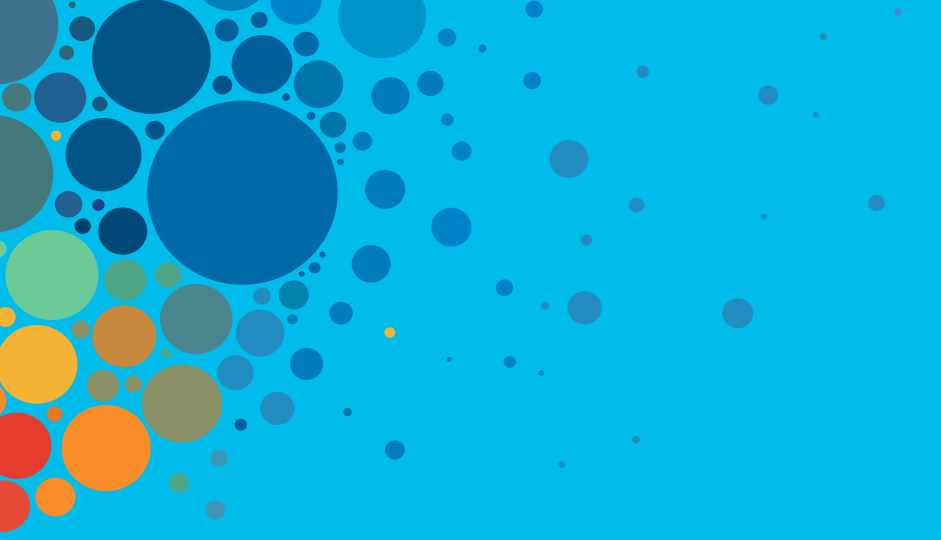
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- Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs
- Visit the On-Demand Library for more sessions at www.CiscoLive.com/on-demand



The bridge to possible

Thank you

CISCO *Live!*



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