

The background features a vibrant, abstract design. On the left, there are horizontal, wavy bands of color in shades of red, orange, yellow, and green. On the right, a bright white light source emits a series of colorful rays in shades of blue, cyan, and yellow, creating a sunburst effect. The overall composition is dynamic and energetic.

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Let's go



The bridge to possible

# Finding Gold with Programmability and Automation

GVE DevNet

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Jason Mah, Solutions Engineering Manager, GVE DevNet

# Agenda

- Programmability with Benefits...
- Use cases
- Demo
- Who can help?
- Q&A




Jason Mah  
Solutions Engineering Manager  
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Eric Zolnosky  
Solutions Engineering Manager  
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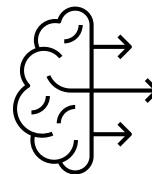
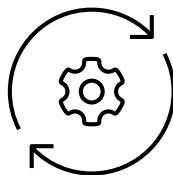
# Programmability with Benefits....



How can  
programmability  
increase your  
bottom line and  
create business  
outcomes?



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110010  
001011



## Automation

Increase productivity of the IT staff through routine tasks automation

Faster and consistent provisioning of network resources

Reduction of time to troubleshoot issues

Consistent security policy across all devices in the network

Time is money

## Integration

Multivendor interoperability

Cisco to Cisco

Dashboards

Reporting

## Innovation

Build customized applications to transform and solve business challenges

Enhance customer experience

Flexibility

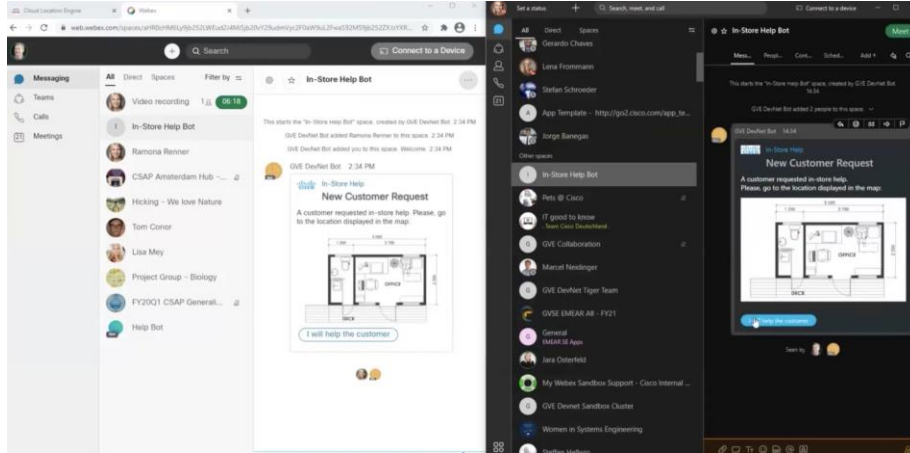
# Increase Revenue

- Increase product and professional services revenue
- Enhance customer experience
- Businesses can differentiate themselves from competitors by offering capabilities that they do not have
- Increases customer loyalty/Recurring revenue
- Offer specialized services
- Create custom offerings increasing trust and value with customers; adding another source of revenue



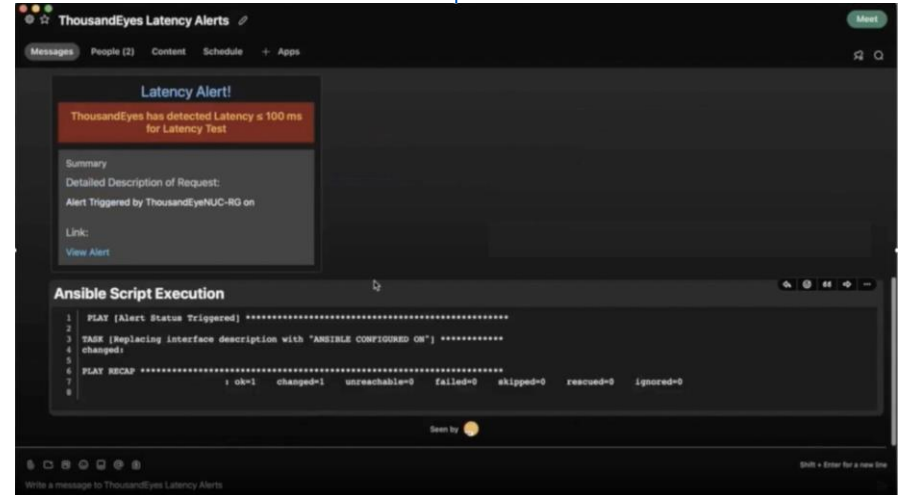
# Use cases

# Use Case Examples



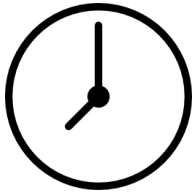
Cisco Spaces In-Store Assistance

## ThousandEyes Alert Triggers



# Start Mining for Gold

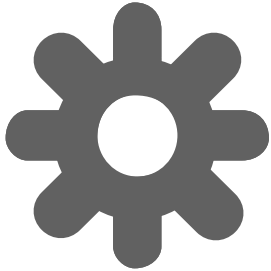
In which areas can you start mining:



Save Time



Prevent  
Human Error



Customize



Innovate





# Demo

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- DNAC VLAN Provisioning tool
- Demo

[https://github.com/gve-sw/gve\\_devnet\\_dnac\\_vlan\\_provisioning](https://github.com/gve-sw/gve_devnet_dnac_vlan_provisioning)

In this use case the customer was deploying switches via Catalyst Center formally known as DNA Center templates to many remote locations which was being handled by local technicians. The network operation team wanted to restrict access to DNAC to prevent errors and accidental misconfigurations.

We created this tool to allow a user to only create VLANs and assign them to ports for a target device. This allowed the operations team to limit the scope of access for the remote technicians. Basically, creating a Role-based access control solution for the customer that is customized for their specific needs.



- Meraki Staged Firmware Upgrade
- Code Walk-through

In this use case the partner was looking to enhance their current solution to schedule staged/phased firmware upgrade for Meraki devices allowing for more flexibility in their upgrade process.

We created this POC to showcase the power of Meraki's Dashboard APIs to solve the customer's workflow. Creating value for the partner.

[https://github.com/gve-sw/gve\\_devnet\\_meraki\\_phased\\_firmware\\_upgrade](https://github.com/gve-sw/gve_devnet_meraki_phased_firmware_upgrade)



- Meraki MV Custom PPE Detection
- Demo Video

This project uses a local YOLOv8 custom PPE model to detect the presence of PPE with a Meraki MV Camera. PPE Zones are defined to specify what a full 'PPE Kit' looks like per camera. If one or more PPE violations are detected, a Microsoft Teams message is sent to a notification space with an attached snapshot.

This use case uses PPE as the detection object, but anything could be trained for detection.

- [https://github.com/gve-sw/gve\\_devnet\\_meraki\\_mv\\_custom\\_ppe\\_detection](https://github.com/gve-sw/gve_devnet_meraki_mv_custom_ppe_detection)





- Cisco Dashboard
- Demo
- [https://github.com/gve-sw/gve\\_devnet\\_cisco\\_dashboard](https://github.com/gve-sw/gve_devnet_cisco_dashboard)

This solution creates a single-pane of glass dashboard which integrates Meraki, ThousandEyes, Catalyst Center, Intersight, and FMC devices

# Who can help?

# GVE DevNet: Team



# GVE DevNet: Services

**GRATIS**

## Consultation:

General API and programmability questions

## Discovery workshop:

Identify customer requirements and priorities

## Design:

Translate business requirements into technical architecture

## Prototype:

Build Proof-of-Value to drive opportunities forward

Ideation

Customize

Execution

Ideation  
Process



Use a dCloud  
or a fixed  
Demo



Design PoV



Build, Model  
and  
Prototype



Hand off  
Code



# Guardrails and Limits for GVE DevNet Team

- Support Limitations
  - No TAC support
  - No Post Sales or ongoing Troubleshooting
  - No Enablement (training on how to code)
- Not a project team



# More Information



Check out our website – Code Samples  
and Use cases

[github.com/gve-sw](https://github.com/gve-sw)



Mail us

[gve-devnet@cisco.com](mailto:gve-devnet@cisco.com)



Cisco DevNet

[developer.cisco.com/startnow](https://developer.cisco.com/startnow)



“In a world where time is precious, automation and flexibility is the currency that allows us to invest in meaningful interactions and strategic growth.”





Question

&



Answer



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# Thank you

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