

# cisco life!

DevNet Zone



## SecureX All The Things

With Hosted and Remote Relays

Matt Vander Horst Technical Leader, SecureX DEVNET-1483



#### Cisco Webex App

#### Questions?

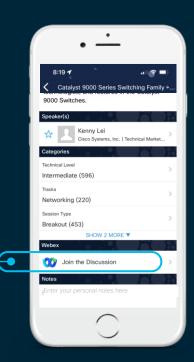
Use Cisco Webex App to chat with the speaker after the session

#### 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 Thursday 22 December, 2022.





https://ciscolive.ciscoevents.com/ciscolivebot/#DEVNET-1483



## Agenda

- Introduction
- SecureX Tour
- Relays, Modules, and Relay Modules
- Demo
- Conclusion



## Introduction





#### Matt Vander Horst

- 8 years at a Fortune 100 insurance company
  - Network engineering
  - Cisco ISE
  - DevOps
- 2.5 years at Cisco
  - SecureX
  - Automation and orchestration





## Secure X Tour



## Security Operations challenges

- Overwhelmed with alerts from disparate security products
- SOCs are understaffed
- Unable to keep pace with current threats



## 65% of organizations

report a shortage of cybersecurity staff



1.3 million positions unfulfilled\*



# The security industry isn't making it any easier



Vast security market 3,000+ Cybersecurity vendors<sup>1</sup>



Siloed solution sets
75 security tools on average<sup>2</sup>

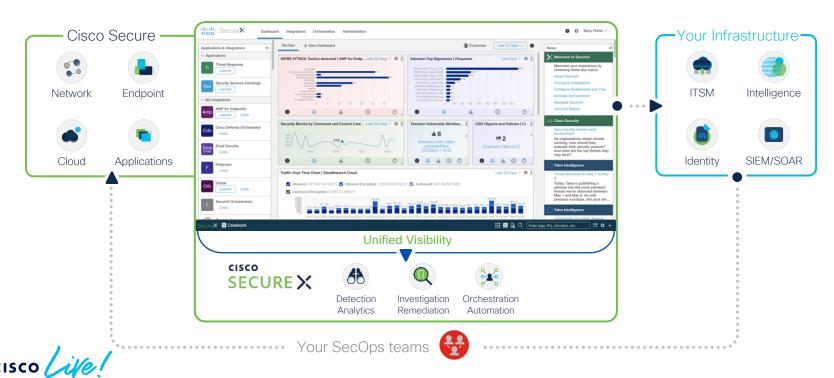


Reduced effectiveness 79% of CISOs say it's difficult to orchestrate alerts<sup>3</sup>



#### Introducing Cisco SecureX

A cloud-native, built-in platform experience within our portfolio



#### SecureX is a cloud-native security platform













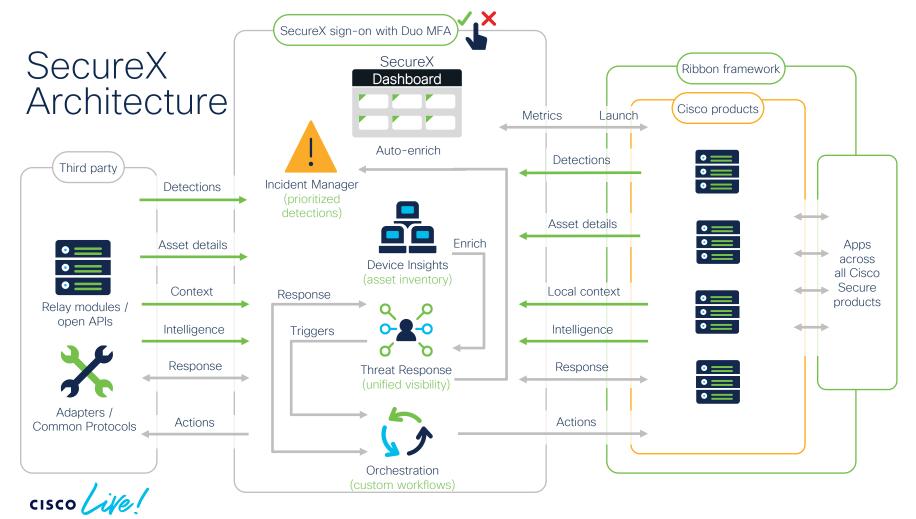


#### cisco SECURE X

integrations built-in, pre-built or custom ribbon never leaves you maintains context dashboard customizable for what matters to you threat response is at the core of the platform

orchestration drag-drop GUI for no/low code insights
device inventory with
contextual awareness





## How does it work?





#### **ALL THE APIS!**

- SecureX aggregates information from the APIs of integrated products
- Most of this is done in real time
  - We're not a SIEM
- Every product speaks a different language, but we speak CTIM
  - Cisco Threat Intelligence Model
  - Relays handle translation



#### **Enrichment Demo**

The process of consulting all modules to find out what any of them know about the observable(s).



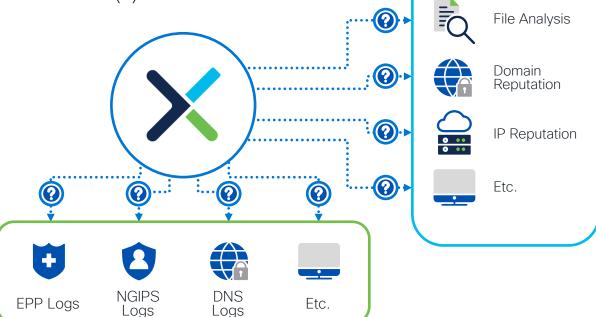




#### **Enrichment Demo**

The process of consulting all modules to find out what any of them know about the observable(s).



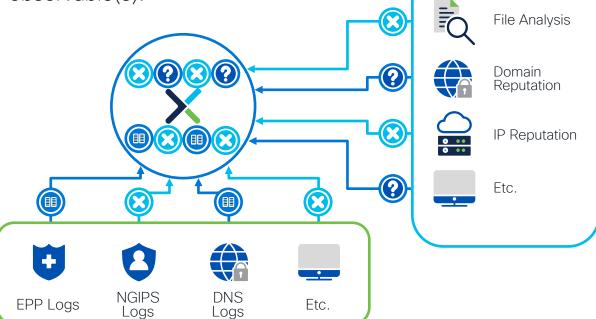




#### **Enrichment Demo**

The process of consulting all modules to find out what any of them know about the observable(s).







#### Response

The process of leveraging the capabilities of SecureXenabled technologies to mitigate threats by acting on observables or targets.

SecOps











**EPP Logs** 



Logs







Etc.

DNS Logs



#### Response

The process of leveraging the capabilities of SecureXenabled technologies to mitigate threats by acting on observables or targets.

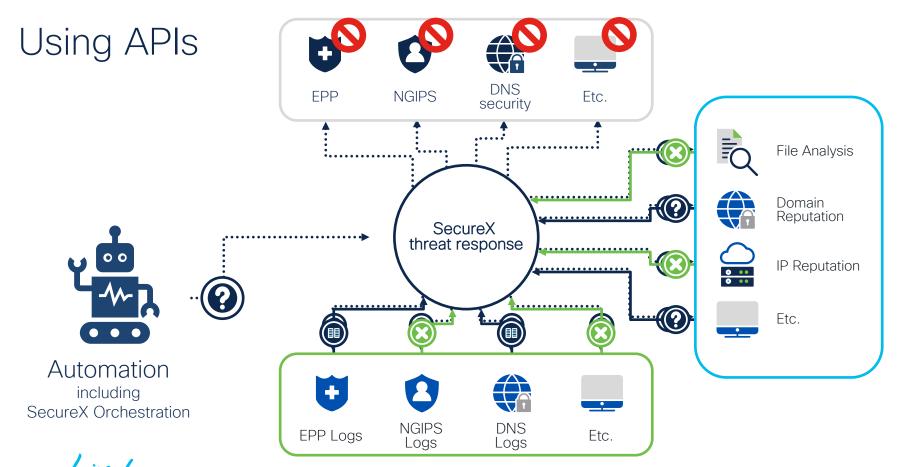




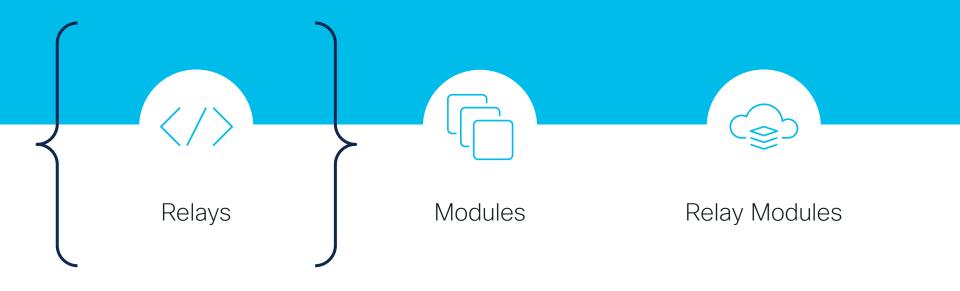








### What enables SecureX integrations?





## Relays

- HTTP-based APIs that can translate between CTIM and another product
  - Reminder: Cisco Threat Intelligence Model
- Allow integrated products to be asked questions they can understand
- Allow SecureX to understand the responses it receives

## Relays

\*This capability can't be used by non-Cisco-published modules



- A relay API's capabilities can include:
  - Dashboard
  - Deliberation
  - Device Insights\*
  - Enrichment
  - Health Check
  - Reference Links
  - Response Actions
- These must match what the module is configured for (more on that later)

#### Side by Side

#### Umbrella API

#### Cisco Threat Intelligence Model

```
{
  "type": "verdict",
  "disposition": 1,
  "observable": {
      "value": "amazon.com",
      "type": "domain"
  },
  "disposition_name": "Clean",
  "valid_time": ...
}
```



#### Who can create relays?



r n

Cisco

Customers
Partners
Third-Parties
You??

Appear globally for everyone

Only visible for your own tenant



#### Yes, you can write your own relays!



Dashboard

Integration Modules

Orchestration

Administration

My Integration Modules

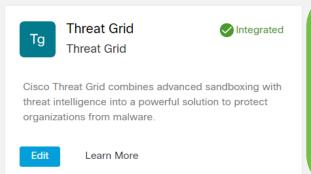
Available Integration Modules

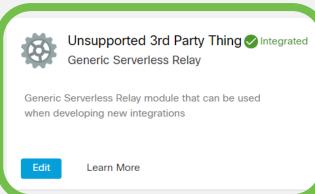
#### Integration Modules

SecureX uses integration modules to integrate with other Cisco security products and third-party solutions. Click here to view all the available integration modules.

#### Your Configurations







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#### Where can relay APIs live?









Within SecureX's Infrastructure aka "Hosted" Public Cloud

Customer Cloud

Customer DMZ

"Remote"

\*Need to be accessible via the internet!



#### What can relay APIs be?

- An AWS Lambda or other serverless resource
- A part of your product's own API
  - If you add API endpoints that speak CTIM, SecureX can communicate directly with your product
- Java/PHP/Python/Ruby/etc. running on a normal web server
  - Remember, relay APIs are just HTTP using a specific data model
- Regardless of what you choose, remember that you'll need to handle validation of the token SecureX provides to the relay



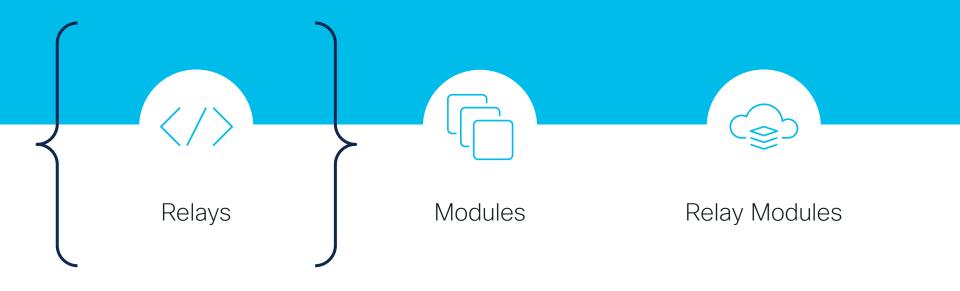
### Sample relay API endpoints

- · /deliberate/observable
- · /health
- /observe/observables
- /refer/observables
- /respond/observables
- /respond/trigger

- · /tiles
- /tiles/tile
- · /tiles/tile-data
- /version



### What enables SecureX integrations?





#### Modules

- Tell SecureX how the integration works
- Includes information like:
  - Product information
  - Product logo
  - Relay API location
  - Relay API capabilities
  - Authentication requirements
  - Configuration requirements

#### Modules

\*This capability can't be used by non-Cisco modules

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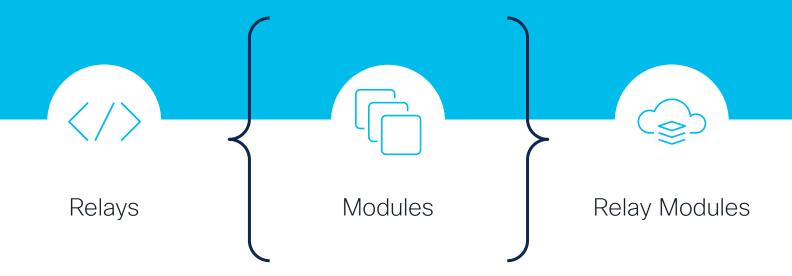
- A module's capabilities can include:
  - Dashboard
  - Deliberation
  - Device Insights\*
  - Enrichment
  - Health Check
  - Reference Links
  - Response Actions
- These must match what the relay API is capable of

#### Modules

- Created by default for all the integrations available in the SecureX integrations catalog
  - The integration catalog is actually a list of modules
- Can be created yourself using the Module Maker in GitHub and the SecureX API
  - https://visibility.amp.cisco.co m/iroh/iroh-int/



#### What enables SecureX integrations?





Relays + Modules = "Relay Modules"



#### Relay Modules

- Amazon GuardDuty
- APIVoid
- Cisco Defense Orchestrator
- Cisco Firepower
- Cisco Orbital
- Cisco Secure Cloud Analytics
- Cisco Secure Cloud Insights
- · Cisco Secure Email Appliance

- · Cisco Secure Endpoint
- Cisco Secure Malware Analytics
- Cisco Secure Network Analytics
- · Cisco Secure Web Appliance
- Duo Security
- Exabeam
- Farsight Security DNSDB®
- Gigamon ThreatINSIGHT



## Relay Modules

- Jamf Pro
- LogRhythm
- Meraki Systems Manager
- Microsoft Graph Security API
- Microsoft Intune
- · MISP
- ServiceNow Security Incident Response | ServiceNow Threat Intelligence

- Shodan
- Sumo Logic Cloud SIEM
- Talos Intelligence
- Umbrella
- urlscan.io
- VirusTotal
- VMWare Workspace ONE UEM

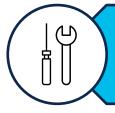




Okay, but now what...



## Building an integration



Build a relay API that can speak CTIM with SecureX and supports the capabilities you want. Examples are published in GitHub to help get you started



Use the module maker to generate the module definition you need to add to SecureX. This will be a JSON-formatted representation of the module



POST the module definition to the "/iroh-int/module-type" SecureX API endpoint (you'll need a SecureX API client with the "Integration" scope)



## Demo





## Demo Outline

1

2

3

API Endpoint Overview Module Definition JSON

Module in Action



# Conclusion





We believe security solutions should empower people to investigate and respond to threats faster



Automation should reduce the burden on the SOC



Security products and threat intel should all work together



Make it easier and faster to investigate threats



"I am able to visualize threats within my environment and take action in half the time it used to take me."

Security Engineer
Large Financial Services Company



## Module and Relay Resources



GitHub Repository

https://github.com/CiscoSecurity/



Module Maker

https://ciscosecurity.github.io/tr-05-module-maker/



Cisco Threat Intelligence Model (CTIM)

https://github.com/threatgrid/ctim/



## Module and Relay Resources



#### Integration Catalog

https://cs.co/threatresponseintegrations



#### Video Playlist

https://cs.co/SecureX\_third\_party\_videos



Cisco Secure Technical Alliance

https://cs.co/CSTA



## Orchestration Resources



#### Videos

https://cs.co/SXO\_videos



#### **Documentation**

https://cs.co/SXO\_docs



GitHub Repository

https://cs.co/SXO\_repo



## SecureX API Resources



Inspect API

https://visibility.amp.cisco.com/iroh/iroh-inspect/



Enrich API

https://visibility.amp.cisco.com/iroh/iroh-enrich/



Response API

https://visibility.amp.cisco.com/iroh/iroh-response/



Private Intelligence

https://private.intel.amp.cisco.com/



## SecureX Resources



Homepage

https://cisco.com/go/securex



Video Playlist

https://cs.co/SecureX\_videos



Frequently Asked Questions

https://cs.co/SecureX\_faq



Get Started!

https://security.cisco.com



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