



TURN IT UP

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The bridge to possible



MSSP for Dummies

How to cope with (and automate) security events from all your customers?

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@ChriscoDevNet
BRKDEV-2002



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Agenda

- What is a Managed Security Services Partner (MSSP)?
- What is required for a MSSP?
- What Cisco solutions fit these requirements?
 - SHORT DEMOS
- Use case: managing Secure Endpoint events for multiple tenants.
 - LONG DEMO
- Closing

What is a Managed Security Services Partner (MSSP)?





Customers Need Help with Security

Organizations lack the resources necessary to respond to advanced threats on the endpoint



Lack of Available
Security Talent



Lack of
Available Budget



Evasion Techniques
Advancing



Diverse Endpoint
Ecosystems

Needs and Challenges MSSPs Face

Challenges



- Inefficient service creation and ongoing operations
- Increasingly competitive environment
- Differing customer needs
- Flexibility to adjust services quickly and efficiently

Needs



- Improved management and visibility/interoperability
- Vendors who are easy to do business with
- Flexible licensing models
- Minimal upfront capital investments

What do MSSP's set out to do?

- Drive monetization of new services;
- Offer fast and agile deployment;
- Integrate products seamlessly;
- Manage customers efficiently;
- Prove your ongoing value to customers;
- Protect customers from advanced threats.

What is required for a MSSP?



What is the most important for a MSSP?

Scale your MSSP offering!



Multitenancy



Comprehensive Reporting



API integrations



Easy service creation

Scale your MSSP offering!

Extra MSSP offering!

Extra MSSP offering!

What Cisco
solutions fit
these
requirements?



The Cisco MSSP Portfolio*



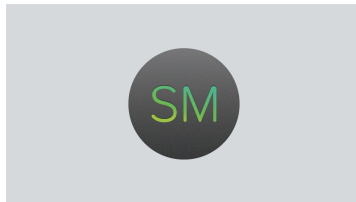
Secure Endpoint

Prevent, detect, and respond to advanced threats while continuously monitoring file behavior to uncover stealthy attacks



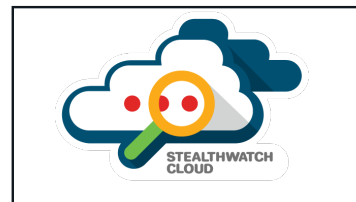
Umbrella Cloud Edge

Provide protection against threats on the Internet across all devices, even when users are off the corporate network



Meraki Systems Manager

Manage and control mobile and desktop devices, onboard new devices, and automate application of security policies



Secure Cloud Analytics

Provides behavioral analytics across your network to help you improve threat detection and achieve a stronger security posture.



Secure Access by Duo

Provides remote access solutions and protects existing IT infrastructure, making it easy for employees and contractors to gain remote access when remote working.

AMP for Endpoints

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~~AMP~~ for ~~Endpoints~~ Cisco Secure Endpoint!

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Secure Endpoint – Overview

- Cloud Managed, subscription-based SaaS
- Protects Windows, Mac, Linux, Android and iOS
- AMP Everywhere: integrated architecture with intelligence sharing
- Prevention, Detection, and Response in a single security agent (connector)
- Public or private cloud deployment options



Secure Endpoint – MSSP Console

 AMP for Endpoints



User User ▾

Customers Accounts ▾

Search



MSSP 1

Search by name, GUID, email or DC MAC address






Time Period

14 days ▾

+ New Customer

☐ + Generate API Keys



Name	Provisioning Status	Connectors	Compromised	TG Submissions	CTA Events
<input type="checkbox"/>  ACME1 Inc	completed	1	0%	0	0
<div><div>Connectors 0 Installs 0 Install Failures</div><div>Recent Users John Doe Jack Doe</div></div> <div><input type="button" value="Impersonate User..."/> <input type="button" value="Enable Identity Sync"/> <input type="button" value="Edit"/> <input type="button" value="Disable"/></div>					
<input type="checkbox"/>  ACME2 Inc	completed	0	0%	0	0
<input type="checkbox"/>  ACME3 Inc	completed	0	0%	0	0
Totals	-	1	-	0	0

New: Secure Endpoint MSSP API!

Scale your MSSP offering!

- Create new tenant: **POST** to
<base_url>/v1/mssp/customers
- Get status all tenants: **GET** to
<base_url>/v1/mssp/customers
- Get status single tenant **GET** to
<base_url>/v1/mssp/customers/<email-admin>
- Disable tenant: **DELETE** to
<base_url>/v1/mssp/customer
- Check MSSP console guide for more info!



Demo Video, please
check recording...

Umbrella



Cisco Umbrella

- Cloud security platform



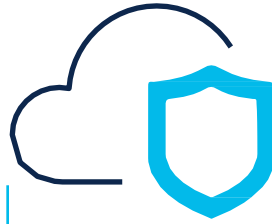
Built into the foundation of the internet

Intelligence to see attacks before launched

Visibility and protection everywhere

MSSP -wide deployment in minutes

Integrations to amplify existing investments



Cisco Umbrella



DNS-layer
security



Secure web
gateway



Cloud-delivered
firewall



Cloud access
security broker
(CASB)



Interactive
threat intel




SD-WAN



ON/OFF NETWORK DEVICES



Umbrella for MSSPs Console





Customer Management

MSSP Console

Centralized ReportsCentralized SettingsCustomer ManagementMSSP Settings

Customer Management



0

Seats Available

1580

Seats Used

0




Total Seats

3

Total Customer Count

Start a new 21-day subscription trial organization, hassle free. Your sales rep will be in contact with you to manage the trial.

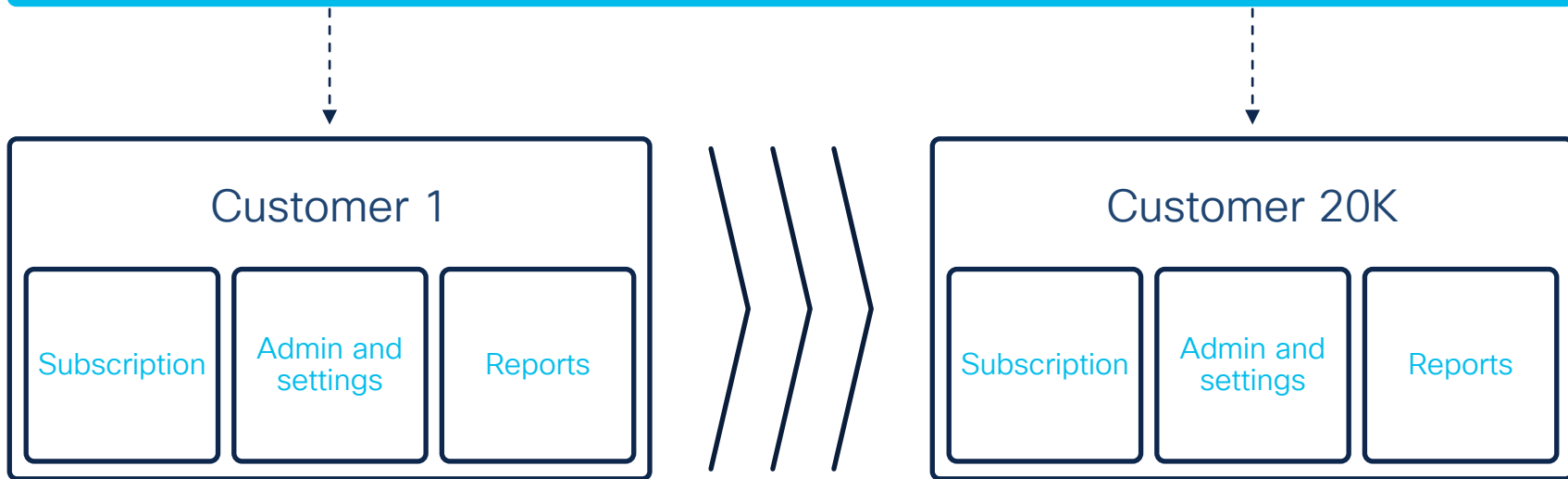
START NEW TRIAL

Name ABC Gum Corp.	Seats 75	Trial ends Feb 14, 2018	Centralized Log Status  Not configured	0 NETWORKS 0 ROAMING CLIENTS 0 VAs
Name Financial Services Company	Seats 1500	Trial ends Feb 14, 2018	Centralized Log Status  Not configured	0 NETWORKS 0 ROAMING CLIENTS 0 VAs
Name KLP Trial org	Seats 5	Service term ends Expired	Centralized Log Status  Not configured	0 NETWORKS 0 ROAMING CLIENTS 0 VAs

Page: 1Results per page: 251-3 of 3

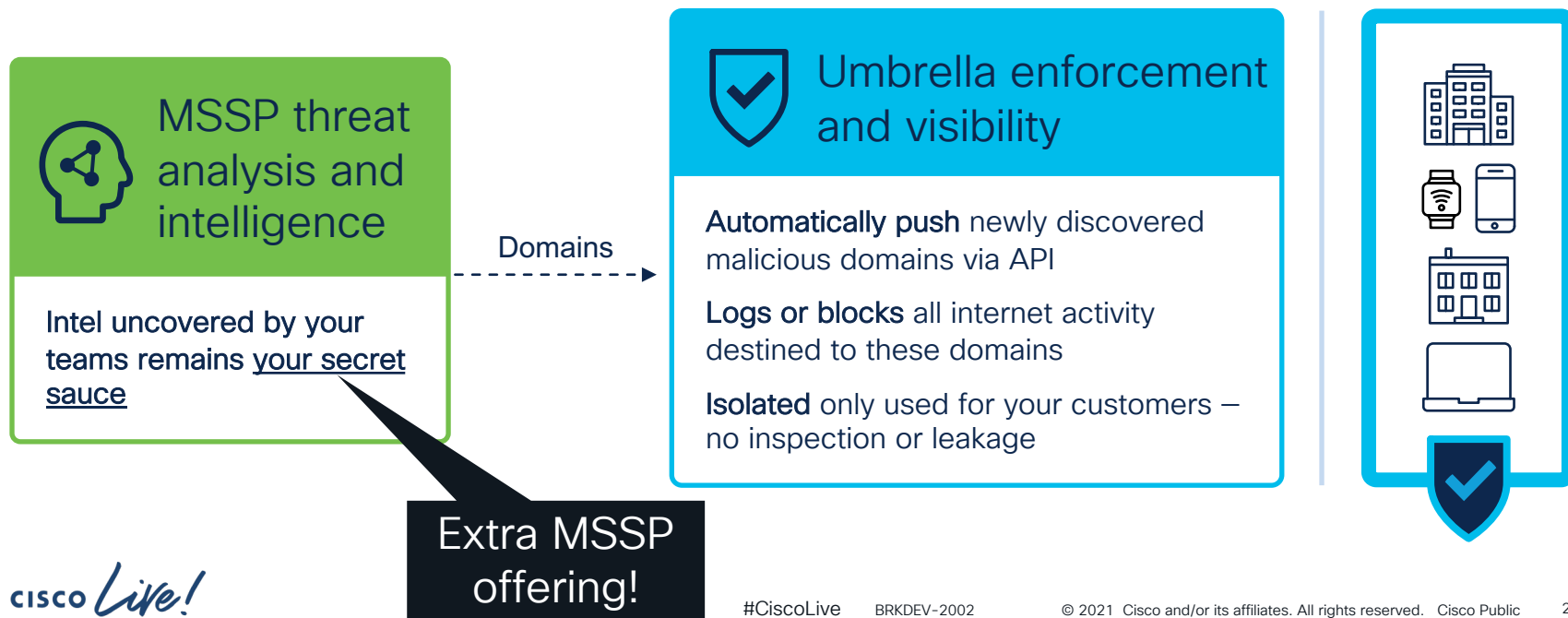
MSSP organization

Centralized settings | MSSP admins | Centralized reports



Leverage the APIs to enforce your intelligence

Protect your customers while keeping your intellectual property secret



Centralized “Secret Sauce” API

MSSP Console

[Centralized Reports](#)[Centralized Settings](#)[Customer Management](#)[MSSP Settings](#)[Partner Resources](#)[New](#)[Overview](#)[Destination Lists](#)[Block Pages](#)[Content Settings](#)[Security Settings](#)[Custom Integrations](#)[Advanced Settings](#)

Custom Integrations

[+ ADD A SETTING](#)

For information about how you can use the API to update destinations lists to block destinations, [read here](#).



When you add a new custom integration setting, a Custom Integration URL is created that is linked to the customer's unique API key. Copy this URL and use it to add, list, and delete domains from your block destination list.

For instructions on how to format a request to add a domain to the block list, and for example scripts, please [read here](#).

Demo Video, please
check recording...

Use more APIs!

- **POST /serviceproviders/{serviceProviderId}/customers/{customerId}/apikeys**
 - *Create a management API Key for your customers*
- **GET /v2/providers/{msporganizationid}/requests-by-org**
 - Gets summary counts of all requests within timeframe
- **GET /v2/providers/{msporganizationid}/requests-by-destination**
 - Gets summary counts of all requests within timeframe
- **GET /v1/organizations/{ConsoleID}/security-summary**
 - This endpoint currently returns the summary of security data for the last 24 hours for all your child organizations. Importantly, it also provides the organization Id of each child organization; this is used later in the security activity details report.
- Much more: <https://docs.umbrella.com/umbrella-api/reference#service-providers>



Scale your MSSP offering!

Meraki Systems Manager

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Meraki Systems Manager Features

PROVISION

- Setup
- Grant Wifi/VPN access
- Configure Email
- Push Apps and Software
- Apply Restrictions

MONITOR

- Global visibility
- See installed software and security profile
- Track stolen/lost devices
- Troubleshoot devices

SECURE

- Dynamic / conditional network and data (email/apps) access
- Recover stolen devices
- Remotely wipe devices
- ISE, AnyConnect, CSC, Cisco Integration

Systems Manager For MSSPs

- No upfront investment required
- No hosting / maintenance requirements
- No minimum purchase needed
- Rich APIs for integration into existing helpdesk / ticketing solutions
- Complementary product with Cisco ISE
- Supports value added networking and full UEM / MDM services
- No additional costs for future features and services
- Easy to learn, maintain and scale



Stealthwatch Cloud

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~~Stealthwatch~~
~~Cloud~~
Cisco Secure
Cloud Analytics

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Stealthwatch Cloud: network security monitoring across your customers' hybrid environments



KNOW
every host



OBSERVE
every interaction



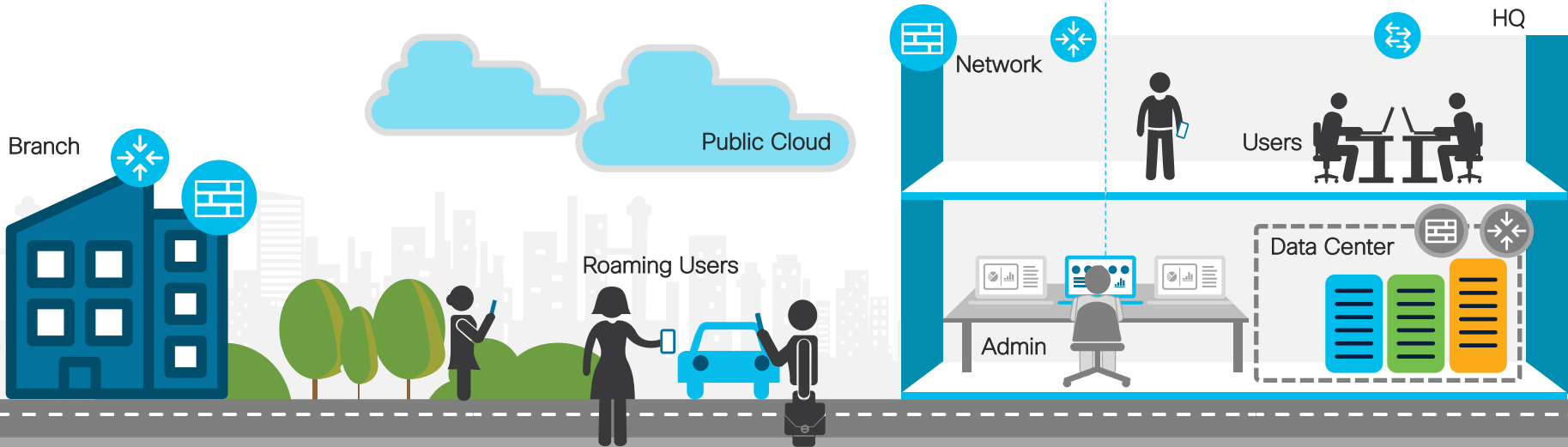
Understand what
is **NORMAL**



Be alerted to
CHANGE



Respond to
THREATS quickly



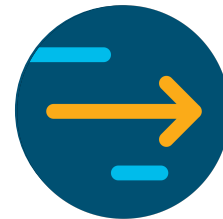
Stealthwatch Cloud is built for MSSPs



Month-to-month,
multi-tenant offering



Develop and offer
services quickly



Easily integrate
into your workflow
tools



No upfront capital
expenditure



No need to invest in
infrastructure or provision
accounts

Duo MFA



~~Duo MFA~~ Secure Access by Duo

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Workforce

How to Verify Trust



Verify users' identities

WITH

Multi-factor authentication (MFA)

Gain device visibility & establish trust

WITH

Endpoint health & management status

Enforce access policies for every app

WITH

Adaptive & role-based access controls

Duo MSP features

- **MSP Console**
 - *Multi-tenant console*
 - *Self-provision accounts and users*
 - *Custom config and policies per tenant*
- **MSP Buying Program**
 - *Monthly billing*
 - *Pay-as-you-go*
 - *Consolidated billing and reporting*
- **MSP Business Support**
- **APIs and many integrations!**

Overview Duo API's

- **Duo Auth API**

- *The Auth API is a low-level, RESTful API for adding strong two-factor authentication to your website or application.*

- **Duo Accounts API** [not enabled by default, contact support]

- *The Accounts API allows a parent account to create, manage, and delete other Duo Security customer accounts.*

- **Duo Admin API** [not enabled by default, contact support]

- *The Admin API provides programmatic access to the administrative functionality of Duo Security's two-factor authentication platform.*

- [Other hidden API's for integration partners]



Scale your MSSP
offering!

Use case:
managing Secure
Endpoints events
for multiple
tenants.



What events are
important?



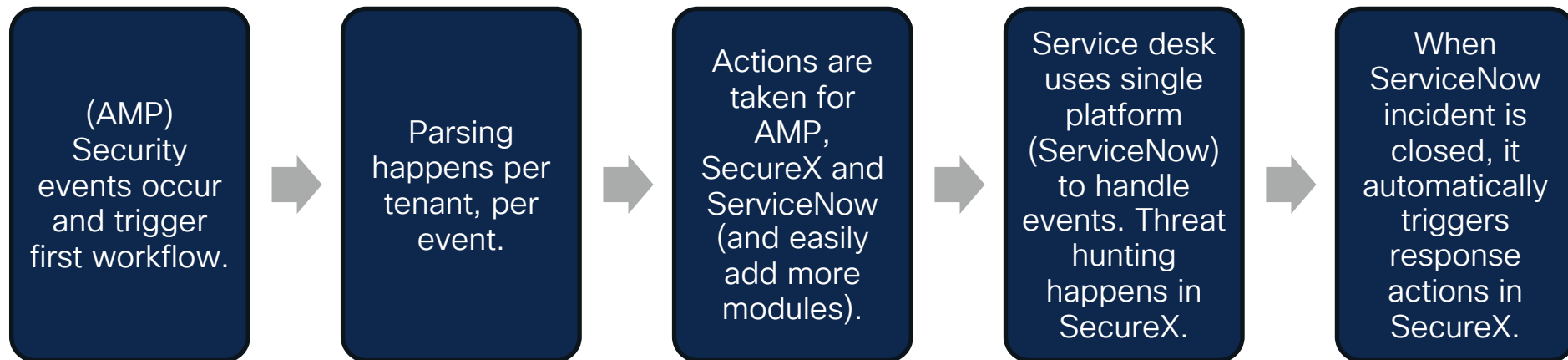
What events ~~are~~
~~important~~
require human
intervention?



Do you agree with me?

&event_type=1090519054&event_type=2164260880&event_type=2164260893&event_type=1090524040&event_type=1090524041&event_type=1090519084&event_type=1107296257&event_type=1107296258&event_type=1107296261&event_type=1107296262&event_type=1107296263&event_type=1107296264&event_type=1107296266&event_type=1107296267&event_type=1107296268&event_type=1107296269&event_type=1107296270&event_type=1107296271&event_type=1107296272&event_type=1107296273&event_type=1107296274&event_type=1107296275&event_type=1107296276&event_type=1091567670&event_type=1107296277&event_type=1107296278&event_type=1107296280&event_type=1107296281&event_type=1107296282&event_type=1107296284&event_type=1107296283&event_type=2164260931&event_type=1090519081&event_type=1090519105&event_type=1090519102&event_type=553648215

Let's check out a specific example...



<https://developer.cisco.com/codeexchange/github/repo/chrivand/amp-mssp-events-to-snow>

LONG DEMO...



<https://developer.cisco.com/codeexchange/github/repo/chrivand/amp-mssp-events-to-snow>

Demo Video, please
check recording...

Closing



What is the most important for a MSSP?

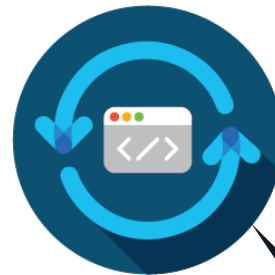
Scale your MSSP offering!



Multitenancy



Comprehensive Reporting



API integrations



Easy service creation

Scale your MSSP offering!

Extra MSSP offering!

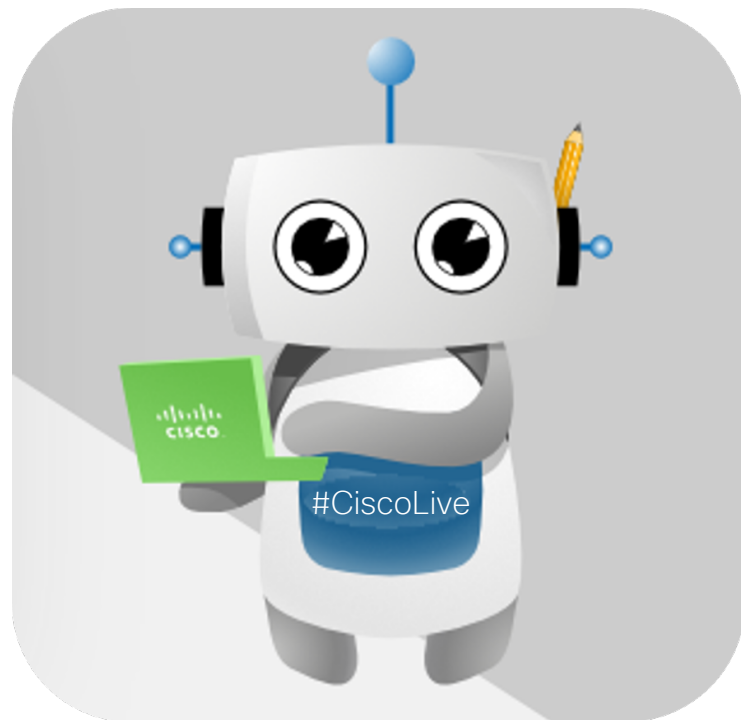
Extra MSSP offering!

Handy links

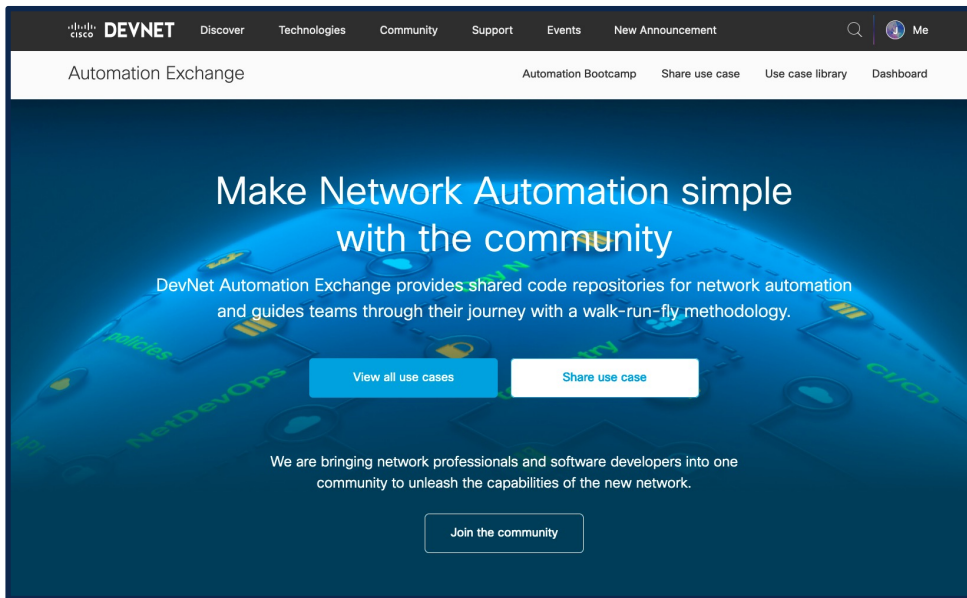
- Cisco MSSP central: <https://www.cisco.com/c/en/us/solutions/service-provider/service-provider-security-solutions/mssp.html>
- AMP API docs: <https://api-docs.amp.cisco.com/>
- Umbrella MSSP: <https://docs.umbrella.com/mssp-deployment/docs/welcome>
- Duo MSSP: <https://duo.com/partnerships/managed-service-providers>
- Stealthwatch Cloud API docs: <https://developer.cisco.com/docs/stealthwatch/cloud/>
- Cool project to check out: <https://github.com/drnop/RTCaaS>
- For licensing and contractual stuff: go to your account representative...

DevNet Resources

- Code of demo:
<https://developer.cisco.com/codeexchange/github/repo/chrivand/amp-mssp-events-to-snow>
- Continue learning with SecureX orchestration:
<https://developer.cisco.com/securex/orchestration/>
- Special Cisco Live DevNet offers:
cs.co/devnetoffers



Automation Exchange



Start your network automation journey with DevNet!



Walk
Get visibility and insights into your network



Run
Activate policy and intent across different network domains



Fly
Proactively manage applications, users, devices with DevOps workflow

Find my code at: <https://developer.cisco.com/network-automation/detail/9a0b42f1-71d3-11eb-aa44-aa8fea613d8b/>



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Thank you

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