

Cisco Community Support Talks Say Hi! to TAC Connect Bot

Arun Arunachalam, Cisco Principal Engineer Paul Anholt, Technical Leader Michael A. Whitaker, Technical Engineer, CCIE #5187

November 19<sup>th</sup>, 2020

# News & Upcoming events



# Ask Me Anything following the event

Now through Friday November 27<sup>th</sup>, 2020

With Arun, Paul & Michael

https://bit.ly/ama-TACcboot



Arun Arunachalam Principal Engineer



Paul Anholt Technical Leader



Michael Whitaker Technical Engineer CCIE #5187

# Upcoming Support Talks events

### **Collaboration Solutions Analyzer**

December 3rd, 2020 With Kristof Van Coillie

Participate: https://bit.ly/csa-tool

Cisco CLI Analyzer December 17th, 2020 With Magnus Mortensen & Nick Oliver

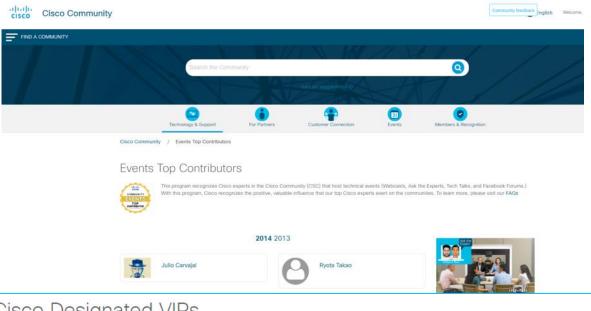
Participate: <u>https://bit.ly/CLI-tool</u>



# Become an event Top Contributor!

Participate in Live Interactive Technical Events and much more

http://bit.ly/EventTopContributors





**Cisco Designated VIPs** 



The Cisco Designated VIP program recognizes the top external individual contributors in Cisco's online communities, including the Cisco Support Community (CSC), Cisco Learning Network (CLN) and the Cisco Developers Network (CDN). Cisco Designated VIPs are recognized by their peers for their expertise and tireless contributions, and their abundant participation is vital to community success. With this program, Cisco formally recognizes the positive, valuable influence our top individual members exert on the communities overall. FAQs

## Rate content at the Cisco Community

Help us to recognize the quality content in the community



Accept as Solution

Encourage and acknowledge people who generously share their time and expertise



## Cisco Community Experts



Arun Arunachalam Cisco Principal Engineer



Paul Anholt Technical Leader



Michael A. Whitaker Technical Engineer

# Thank You For Joining Us Today!



Download Today's Presentation https://bit.ly/slides-tacbot

# Submit Your Questions Now!

Use the **Q&A** panel to submit your questions and the panel of experts will respond.

They will be answered eventually



Please take a moment to complete the survey at the end of the event



# TAC Connect Bot

Personal Assistant for Customers, Partners and You

Cisco Customer Experience November 2020 <u>https://tacconnect.cisco.com</u>









Accessing the Bot



Conversations



Help, Commands & Feedback

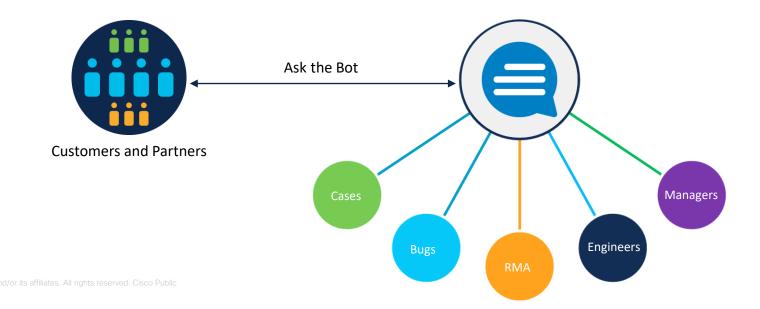
# **Polling Question 1**

How frequently do you interact with Cisco TAC?

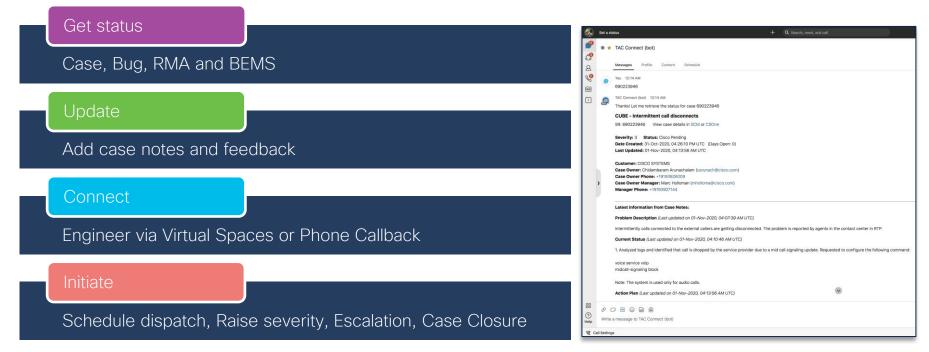
- A. Daily
- B. Weekly
- C. Monthly
- D. Not frequently

### Why a Personal Assistant?

A significant percentage of incoming calls to Cisco TAC Frontline are about existing cases. Common inquires include "what is the latest status of my case" and "I want to talk to my engineer". TAC Connect Bot enables a self-service experience for these interactions.



### Self-Service Experience for TAC Engagements Get Things Done Quicker Without Waiting in Queue



#### Natural language and text commands



# Accessing the Bot

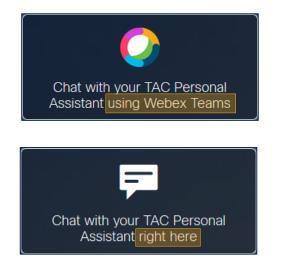


## Multiple ways to interact with the Bot

### https://tacconnect.cisco.com



### Virtual Spaces



| Actions       | Case      | Created $\checkmark$ |  |
|---------------|-----------|----------------------|--|
| ☆ ASK THE BOT | 689690559 | 08/12/2020           |  |
| ☆ ASK THE BOT | 689644400 | 08/05/2020           |  |
| ASK THE BOT   | 689517089 | 07/17/2020           |  |

Hi there! I can help manage your cases.



#### Meet 6 Q Messages People (4) Content Schedule TAC Connect (bot) 8/4/20, 6:00 AM Hello! I can help you get case details and connect with Cisco TAC. You can make the following requests in English language: @TAC what is the status @TAC connect with engineer @TAC create a virtual space @TAC request an update @TAC update the case @TAC escalate @TAC raise severity @TAC requeue @TAC close the case I can help you manage cases that are opened from Cisco.com Support Case Manager. Currently, I can't open new cases or answer technical questions. Type "/list commands" to get a list of command requests and find details of supported features using the documentation and demo videos. Created in the context of a TAC case

"The tool is amazing for me, personally overnight it changed TAC and customer workflow management and I love it." - Matt Buttner, Systems Architect, Sales

# Welcome Message Has Everything to Get Started

| @ ☆ | TAC Connect (bot)  | S         | D |
|-----|--|-----------|---|
|     | Messages Profile Content Schedule Add +  | 4         | Q |
|     | Today  |           |   |
|     | TAC Connect (bot) 4:52 PM<br>Hello! I can help you get case, bug and RMA details and connect with Cisco TAC. You can make the<br>requests in English language:   | following |   |
|     | <ul> <li>my cases</li> <li>what is the status of (case number or bug number or rma number)</li> <li>connect with engineer (case number)</li> <li>create a virtual space (case number)</li> <li>request an update for (case number)</li> <li>update the case (case number)</li> <li>escalate (case number)</li> <li>raise severity (case number)</li> <li>requeue (case number)</li> <li>requeue (case number)</li> <li>close the case (case number)</li> <li>connect to duo</li> </ul> I can help you manage cases that are opened from Cisco.com Support Case Manager. Currently, I ca cases or answer technical questions. Type "/list commands" to get a list of command requests and supported features using the documentation and demo videos. |           |   |



 What – The email address that is used to login to Webex Teams MUST be the primary email address associated with your Cisco.com profile. <u>https://rpfa.cloudapps.cisco.com/rpfa/profile/profile\_management.do</u>

• Why – To protect customer data.

• How – The email address of Webex Teams user account is mapped to Cisco.com user-id. This user-id is used to authorize case, bug and RMA data access.

## Get Started!

Create a Webex Teams account using your primary email address associated with your Cisco.com user profile. The exact email address can be found in Account Profile Tool.

**Cisco Webex Teams** 

# Make teamwork your best work.

Webex Teams is an app for continuous teamwork with video meetings, group messaging, file sharing and white boarding.

Try Teams free

**Download Teams** 

### Account Profile Tool

https://rpfa.cloudapps.cisco.com/rpfa/profile/profile\_management.do

### Download

https://www.webex.com/products/teams/index.html

### Get Started

https://help.webex.com/ld-n0bl93g-CiscoWebexTeams/Webex-Teams-App#

# Demo <u>Cisco Video Playlist</u>

YouTube Playlist



# Polling Question 2

What is your preferred communication preference?

- A. Email
- B. Phone
- C. Webex Teams
- D. Web chat
- E. Bots



Conversations: Status view and Case Updates



### Prioritized View of Your Cases

You 2:08 PM

my cases



TAC Connect (bot) 2:08 PM

Thanks! Let me retrieve the cases for user ID carunach

#### **Cisco pending cases**

1. (S3, 06/04/2019) 686863960 - GCI Test case: Call center agents get disconnected mid conversation.

- 2. (S3, 07/12/2019) 687108421 Test case
- 3. (S3, 07/13/2019) 686587936 Test case

#### Cases that needs my confirmation to close

1. (S3, 05/16/2019) 686442481 - This is a test case to test out DS recommendation alert. 000096: Jun 14 07:43:4

### Get Case Status

#### You 8:11 PM

#### status 683752332

TAC Connect (bot) 8:11 PM Thanks! Let me retrieve the status for case 683752332

DNS DDoS Proactive Detection (Test case)

SR: 683752332 View case details in SCM or CSOne

 Severity: 3
 Status: Customer Updated

 Date Created: 11-Jan-2018, 08:04:07 AM UTC
 (Days Open: 562)

 Last Updated: 27-Jul-2019, 04:16:40 AM UTC

Customer: CISCO SYSTEMS, INC. Case Owner: Chidambaram Arunachalam (carunach@cisco.com) Case Owner Phone: +1 919 392 6009

#### Linked Bugs:

- CSCtz27004
- CSCvd04266

Problem Description (Last updated on 08-Jul-2019, 07:44:54 PM UTC)

Unexpected spike in DNS traffic to host 172.18.110.100 detected by Tetration Analytics Platform. Issue was identified to be a DNS DDoS attack. Test.

Changing from internal to external.

Action Plan (Last updated on 10-Jul-2019, 09:59:32 PM UTC)

(1) Monitor the system and SDN controller policy deployed to mitigate DNS DDoS traffic.

(2) Upgrade software to NX OS 6.2(10)S16

(3) Monitor device after upgrade and close the case if everything works well.

Resolution Summary (Last updated on 08-Jul-2019, 07:44:56 PM UTC)

Issue was mitigated by rerouting DNS traffic from 10.x.x. network to a blackhole and storing 10% in the data collection server. SDN Controller policy to automatically detect issue and take rerouting action has been developed, tested and provided to customer

Proactive Recommendation:

Note: External users can access the case data only if there are authorized. This requires the user to have the service contract used to open the case to be associated with their <u>Cisco.com profile</u>.

A # F A

Adding the user's email address in the CC Recipients field at the time of case open in Support Case Manager does not enable case data access.

### Get Bug Status

| You 8:15 PM (4 14 P)   |  |  |
|--|--|--|
| status CSCtz27004  |  |  |
| NEW MESSAGES   |  |  |
|  |  |  |
| TAC Connect (bot) 8:15 PM  |  |  |
| Thanks! Let me retrieve the status for bug csctz27004  |  |  |
| NVRAM correction when bad sectors found.   |  |  |
| CSCtz27004   |  |  |
| Status : Fixed   |  |  |
| Product : Cisco Nexus 7000 Series Switches   |  |  |
| • Severity : Enhancement(6)  |  |  |
| Click here to view known affected and fixed releases.  |  |  |
| Bug Release-note :   |  |  |
| Symptom:   |  |  |
| Supervisor-1 may log the following messages and report NVRAM Gold diagnostic failure:  |  |  |
| %KERN-2-SYSTEM_MSG: Invalid cksum for block 17 expected 0x304 got 0x384 - kernel   |  |  |
| %KERN-0-SYSTEM_MSG: NVRAM Error: (line 464):Invalid cksum for block 17 expected 0x304 got 0x384 - ker  |  |  |
| %DEVICE_TEST-STANDBY-2-NVRAM_FAIL: Module 5 has failed test NVRAM 20 times on device NVRAM due to error Bad blocks found on nvram<br>%DIAGCLIENT-STANDBY-2-EEM_ACTION_HM_SHUTDOWN: Test has been disabled as a part of default EEM action            |  |  |
| Conditions:<br>NVRAM diagnostic test verifies that stored cksum matches the cksum computed for block contents. If there is a mismatch in cksum values, the condition is logged and test<br>will be disabled after multiple consecutive failures.     |  |  |
| Workaround:<br>NVRAM block failure may be a result of a single-event upset / bit-flip (transient condition). Prior to this enhancement, no error-correction is performed and the issue will only<br>be cleared by reload of the affected supervisor. |  |  |
| Details of this enhancement:   |  |  |
| This enhancement provides error correction for NVRAM data corruption caused by single-event upsets by replacing corrupted blocks with contents from mirrored copy in   |  |  |
| DRAM. The NVRAM Gold diagnostic will continue to log the initial checksum failure, but will perform a block rewrite that will prevent further test iterations from failing.  |  |  |
| If multiple test failures occur for the same NVRAM block, a hard-failure may have occurred and a TAC case should be opened for RMA.  |  |  |

### Get RMA Status

#### You 8:17 PM

status 88238608



TAC Connect (bot) 8:17 PM

Thanks! Let me retrieve the status for RMA 88238608

#### RMA 88238608:Service Order RMA API

- Status: Closed
- Contact Name: Jonathan Menendez
- Contact Email: mailto:jonmenen@cisco.com
- Contact Phone: 1919 574 6788
- Order Date: 2018-01-10
- Requested Ship Date: 2018-01-10
- Click here to view the shipment, tracking and return details

#### Shipping address:

Jonathan Menendez CISCO SYSTEMS 7025 KIT CREEK RD RESEARCH TRIANGLE PARK NC US

### Update a Case

You 2:26 PM

update case 683752332



TAC Connect (bot) 2:27 PM

Please enter the note details.



You 2:27 PM

The problem reoccurred today and we have attached the logs.



TAC Connect (bot) 2:27 PM

Thanks! Successfully added the note to the case 683752332

### Request Latest Update on a Case

#### TAC Connect Bot × Problem Description (Last updated on 07-Feb-2020, 09:18:56 PM UTC) Unexpected spike in DNS traffic to host 172.18.110.100 detected by Tetration Analytics Platform. Current Status (Last updated on 20-Feb-2020, 02:15:17 PM UTC) Customer is currently monitoring the implemented solution and will inform results to US. Action Plan (Last updated on 10-Mar-2020, 02:21:48 PM UTC) (1) Customer - Monitor the system for 1 week and provide confirmation that the policy is working well or report any related issues. (2) Customer - Upgrade software to NX OS 6.2(10)S16 is scheduled on 3/18. monitor system stability. (3) Engineer - Close case after customer provides confirmation. TAC Connect (bot) 8:28 PM Resolution Summary (Last updated on 07-Feb-2020, 09:18:56 PM UTC) Issue was mitigated by rerouting DNS traffic from 10.x.x.x network to a blackhole and storing 10% in the data collection server. SDN Controller policy to automatically detect issue and take rerouting action has been developed, tested and provided to customer. Proactive Recommendation: The syslog message "%KERN-2-SYSTEM\_MSG: Invalid cksum" is observed in a number of Nexus 7K switches. The root cause of this message is due to CSCtz27004. Workaround is to reload the device. Customer needs to upgrade to NX OS 6.2(10)S16. Recommendation has been provided to customer's support team and AS engineers. /request-update 687405514 Thanks! I have informed the case owner to review and provide you the latest case update > 1 Rate your experience 🙂 😉 O Chat in WebEx Teams 🔿 Start Over (?) Help

#### Bot Notification to Engineer

Chidambaram Arunachalam, carunach@cisco.com has requested case owner to review and provide the latest update regarding the case 683752332. Please reach out to customer.

### Provide Case Closure Confirmation

|   | close case 687405514 |
|---|----------------------|
| Sure. I will inform the case owner to clos<br>Thanks! | e this case.         |

### Bot Notification to Engineer



TAC Connect (bot) 8:37 PM

carunach@cisco.com has requested to close the case 683752332.

Please take next steps. Thanks!



# Conversations: Engineer Communication



### Connect to Engineer

|     | You 4/2/18, 3:47 PM<br>connect to engineer  | Engineer <mark>is</mark> available |
|-----|---|------------------------------------|
| Bot | TAC Connect4/2/18, 3:47 PMWould you like to speak with the owner of 683752332, "DNS DDoS Proactive Detection (Test case)"? Plet<br>this case number or provide another case number. | ease enter "Yes" to use            |
|     | You 4/2/18, 3:48 PM<br>yes  |                                    |
| Bot | TAC Connect4/2/18, 3:48 PMCan the engineer call you at 19197447009? Please enter "Yes" to use this phone number or provide anot   | her phone number.                  |
|     | You 4/2/18, 3:48 PM<br>yes  |                                    |
| Bot | TAC Connect4/2/18, 3:48 PMThanks! Let me check if the engineer is available to call you.Engineer is available and will call you soon at 19197447009. Thanks!                        |                                    |

© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

### Connect to Engineer

|     | You 4/2/18, 3:53 PM<br>connect to engineer   | Engir          |
|-----|--|----------------|
| Bot | TAC Connect4/2/18, 3:53 PMPlease provide a case number.  |                |
|     | You 4/2/18, 3:53 PM<br>683752332   |                |
| Bot | TAC Connect 4/2/18, 3:53 PM<br>What is your phone number? Please include the country code. Example: 491701234567.  |                |
|     | You 4/2/18, 3:53 PM<br>19197447009   |                |
| Bot | TAC Connect4/2/18, 3:53 PMThanks! Let me check if the engineer is available to call you.Engineer is not available right now. Please leave a message to the engineer.   |                |
|     | You 4/2/18, 3:54 PM<br>test  |                |
| 8   | TAC Connect Stage 4/2/18, 3:54 PM<br>Your message has been sent and the engineer will call back.<br>If you need immediate assistance, please call Cisco TAC and request the case to be reassigned. Cisco TAC<br>http://www.cisco.com/c/en/us/support/web/tsd-cisco-worldwide-contacts.html | phone numbers: |

### Engineer isn't available

### Connect to Engineer

|     | You 8:10 AM<br>connect to engineer 689629891  | righ            |
|-----|---|-----------------|
| Bot | TAC Connect (bot) 8:10 AM<br>What is your phone number? Please enter a valid phone number including the count<br>the + or - signs. Example: 491701234567            | ry code without |
|     | You 8:10 AM<br>19193926009  |                 |
| Bot | TAC Connect (bot) 8:10 AM<br>Thanks! Let me check if an engineer is available to call you.<br>Engineer is not available right now and will call back in 15 minutes. |                 |
|     |   |                 |

Engineer isn't available right now but will callback in 15 / 30 / 60 minutes

### Use Virtual Space as the Communication Preference

#### You 8:45 PM

/create-space 687202983

TAC Connect (bot) 8:45 PM

Communication preference has been changed from Email to Virtual Space. You will be invited to a Webex Teams virtual space in which you can interact with the case owner and share files related to this case.

#### Webex Teams Virtual Space with case contacts and owner

#### ① 🕸 Cisco TAC Case : 687202983 : Test case .... This starts the "Cisco TAC Case : 687202983 : Test case" space, created by CiscoTAC.Spark (bot), 8:45 PM CiscoTAC.Spark (bot) added you to this space. Welcome, 8:45 PM CiscoTAC.Spark (bot) 8:45 PM Welcome Chidambaram. Please use this virtual space to communicate with Chidambaram, the engineer assigned to your case. The engineer will review the information provided for the following customer symptom and will contact you shortly in this virtual space. **Customer Symptom:** Technology: Cloud and Hybrid Products Subtechnology: Collaboration Meeting Room (CMR) - Hybrid Problem Code: Configuration Assistance Product: N/A Product Family: N/A Software Version: N/A Router/Node Name: N/A Problem Details: Test case Engineer contact details: Name: Chidambaram Arunachalam Email address: carunach@cisco.com Phone number: +1 919 392 6009 **Customer File Upload Guidelines:** http://www.cisco.com/c/en/us/about/security-center/tac-customer-file-uploads.html Files shared in this space that are 300MB or less will automatically be available as case

attachments. Use CSC File Uploader to share large files: https://cway.cisco.com/csc/index.html?requestID=687202983

© 2020 Cisco and/or its affiliates. All rights reserved. Cisco Public

### Bot is automatically added to external virtual space

| ⊕ ☆     | Cisco TAC Case : 690329099 : TAC Connect Bot Demo   | Meet                        |
|---------|---|-----------------------------|
|         | Messages People (5) Content Schedule  | ବ ପ                         |
|         | This starts the "Cisco TAC Case : 690329099 : TAC Connect Bot Demo" space, created by CiscoTAC Spark (bot). 8-52 AM   |                             |
| Ø       | ClscofAC.Spark (bot) 8:52 AM<br>Welcome TAC. Please use this virtual space to communicate with the Engineer. Engineer will join this space once the case is accepted.<br>Customer Symptom:  |                             |
|         | Tachnology: Cloud and Hybrid Products<br>Subtechnology: Collaboration Meeting Room (CMR) - Hybrid<br>Problem Code: Configuration Assistance<br>Product: N/A<br>Software Version: N/A<br>Router/Nod Amme: N/A  |                             |
|         | Problem Details: TAC Connect Bot Demo Customer File Upload Guidelines: http://www.cisco.com/ce/nu/aphout/security-center/hac-customer-file-uploads.html Files shared in this space that are 300MB or less will automatically be available as case attachments. Use CSC File Uploader to share large files: https://www.cisco.com/csc/index.html?requestID=690329099 Conversation Transcript: https://owapc.is.ou/case_is.available in Support Case Manager and can be downloaded as a pdf file even after the case is closed. Please click "View Transcript" b the following link to view and download the transcript: https://www.cisco.com/apscrime/m03023009/summary   | utton in                    |
| <b></b> | TAC Connect (bot)       8:52 AM         Helicit I can help you get case details and connect with Cisco TAC. You can make the following requests in English language:       BOO         • @TAC what is the status       • @TAC add participant (email address)       • @TAC connect with regimeer         • @TAC connect with regimeer       • @TAC create a virtual space       CO         • @TAC request an update       • @TAC request an update       • @TAC request an update   | t pe<br>ntex<br>ass<br>xter |
|         | erno request     e | nds" to                     |

Bot performs tasks in the context of the TAC case associated with the external virtual space.

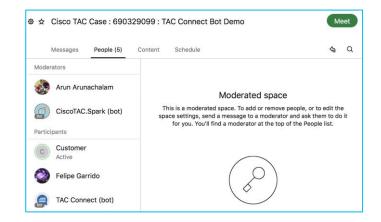
get a list of command requests and find details of supported features using the documentation and demo videos.

# Virtual Spaces

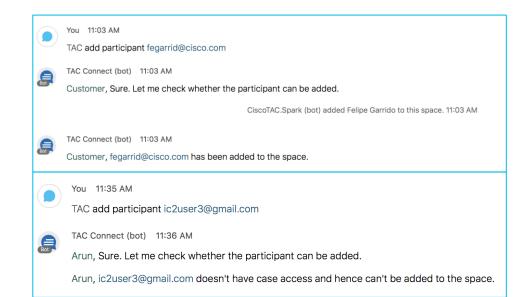
- Case owners are added as moderator.
- Customers can add authorized participants using @TAC /add-participant <email-addr>
- Files up to **300MB** can be shared in the space and are transferred to case.
- When the case is closed

All human participants are removed Automatic import of text messages Virtual space is deleted

 Conversation Transcript is available in Support Case Manager

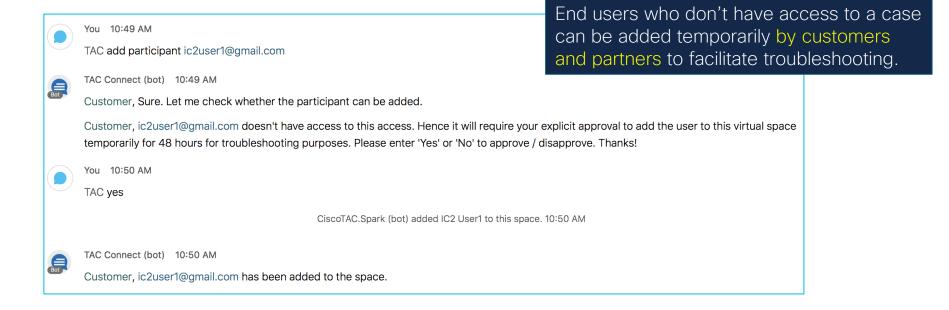


## Add Authorized Participants to the Virtual Space



Authorized participants are users who have case access. This is determined based on the contract or subscription associated with the user's profile.

## Add Participants to the Virtual Space Temporarily



## Virtual Space Conversation Transcript

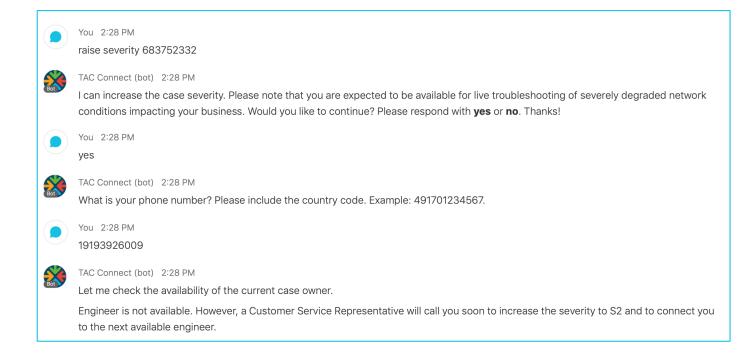
| Support Case Mana<br>Details for TAC FastStart (tacfaststart@gmail. | 0                           |  |         |                         | Virtual Space Transcript for case<br>690329099  |
|---|-----------------------------|--|---------|-------------------------|---|
| ☆ 690329099     TAC Connect Bot De                                  | emo                         | ASK THE BO   |         |                         | 00-MWM2M2YwY2x4MjnkYg0xMWVLWFmYjItNGQSOTQD DlyNGU3 (GMT)<br>2020-11-17 13:52:31 (GMT) tac connect@webex.bot<br>Helio! I can help you get case details and connect with Cisco TAC. You can make<br>the following requests in English Imaguage: TRAC what is the status @TAC add  |
| Note: You will be invited to a virt taking ownership.               | ual space in Webex Teams at | fter the case has been created. The engineer will join the space after | ×       |                         | participant (email address) @TAC connect with engineer @TAC create a virtual<br>space @TAC request an uodate @TAC update the case (TAC escated @TAC<br>raise severity @TAC requeue @TAC close the case I can help you manage cases<br>that are opened from Cisco com Support Case Manager. Currently, I can't open<br>new cases or answer technical questions. Type "Tick commands" to got a list of<br>command requests and find details of supported features using the documentation<br>and demo videos. |
| Summary Notes Attachments   | O Launch Webex Teams        | (ADD NOTES ⊕) (ADD FILES ±) (VIEW TRANSCRIPT ±) (SAVE AS               | 1 / 2 > | Click "View Transcript" | 2020-11-17 13:52-23 (GMT) ciscotacepark@webex.bot<br>Welcome TAC, Please use this virtual space to communicate with the Engineer.<br>Engineer will join this space once the case is accepted. Customer Symptom:<br>Technology: Could and Hytid Products: Studechondrogy: Colaboration Meeting<br>Room (QMR) - Hybrid Problem Code: Configuration Assistance Product. N/A<br>Product Family: N/A Software Version: N/A Roteet#rokeNae Name: N/A Problem  |
| CASE SUMMARY  | SEVERITY                    | CREATED  |         |                         | Details: TAC Connect Bot Demo Customer File Upload Quietiens:<br>http://www.cisc.com/ic/en/usl/abu/secuity-center/tac-customer-file-<br>uploads.html Files shared in this space that are 300MB or less will automatically be<br>available as case attachments. Use CSC File Uploadfort to share large files:<br>https://cway.cisc.com/csc/nides.html?requestID+600329090 Conversation<br>Transcrict.The transcript of this virtual space is available in Support Case Manager                               |
| Cisco Pending<br>REQUEST TYPE<br>Diagnose and Fix my Problem        | 3<br>LOSS OF SERVICE        | 11/17/2020   |         |                         | and can be downloaded as a pdf file even after the case is closed. Please click<br>"View Transcript" button in the following link to view and download the transcript:<br>https://mycase.cloudaps.cisco.com/690329099/summary   |
| Diagnose and FIX Hig Problem  | NU                          |  |         |                         | SAVE AS PDF CANCEL  |



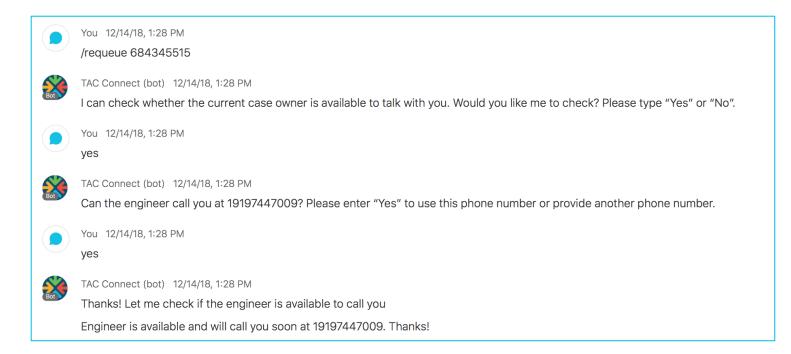
# Conversations: Case Handling Tasks



## Change Case Severity



## Requeue a Case



## Schedule Dispatch a Case

|   | You 12:26 PM   |                       |         |
|---|--|-----------------------|---------|
| e | requeue 689382051  |                       |         |
|   | TAC Connect (bot) 12:26 PM   |                       |         |
| - | Please select when you would like to requeue?  |                       |         |
|   | Now Specific Time  |                       |         |
|   |  |                       |         |
|   | TAC Connect (bot) 12:26 PM   |                       |         |
|   | If your case is requeued, it will change ownership to different engineer.<br>time. Would you still like to requeue?    | This may increase res | olution |
|   | You 12:27 PM   |                       |         |
|   | yes  |                       |         |
|   | TAC Connect (bot) 12:27 PM   |                       |         |
| - | Please select a specific date and time. If it's the same day,<br>choose a time slot that starts at least 1 hour ahead. |                       |         |
|   | Date   |                       |         |
|   | 2020-08-15   |                       |         |
|   | Time Slot  |                       |         |
|   | 08:00 AM - 10:00 AM \$   |                       |         |
|   | Time Zone  |                       |         |
|   | America/New_York \$  |                       |         |
|   | Submit   |                       |         |
|   |  |                       |         |
|   | TAC Connect (bot) 12:28 PM   |                       |         |
| 8 | Thanks! Let me request the requeue.  |                       |         |
|   | Your case is set to be requeued on 2020-08-15 during the time slot 08  | :00 AM - 10:00 AM ho  | urs,    |
|   | America/New_York. New engineer will contact you after the case is acce   | epted.                |         |

## Escalate a Case – Contact via Phone

| ۲  | You 6:43 AM<br>escalate 687405514   |             | DM <mark>is</mark> available |
|--|---|-------------|------------------------------|
| eet  | TAC Connect (bot) 6:43 AM<br>An escalation request will inform a manager that the case needs attention. The manager, duty manager or customer service representative will call you to discuss furt<br>would like to raise severity or requeue the case, please use <b>/raise-severity</b> and <b>/requeue</b> commands. Would you still like to continue? Please enter 'Yes' or 'No'. | her. If you |                              |
| ۲  | You 6:43 AM<br>Yes  |             |                              |
|  | TAC Connect (bot) 6:43 AM<br>Please provide the escalation reason. This will help the manager understand the situation better.  |             |                              |
| ۲  | You 6:43 AM<br>Lack of timely progress  |             |                              |
| Bot  | TAC Connect (bot) 6:43 AM<br>How would you like the manager to contact you? Please enter 'email' or 'phone'.  |             |                              |
| ۲  | You 6:44 AM<br>phone  |             |                              |
| (internet internet in | TAC Connect (bot) 6:44 AM<br>Would you like to be called at 19197447009? Please enter 'Yes' to use this phone number or provide another phone number.   |             |                              |
| ۲  | You 6:44 AM<br>yes  |             |                              |
|  | TAC Connect (bot) 6:44 AM<br>Contacting the manager of the engineer assigned to this case. This may take up to 5 minutes.   |             |                              |
|  | It looks like manager (joselmar@cisco.com) is not available.<br>I'll contact a duty manager next. This may take up to 3 minutes.  |             |                              |
|  | Duty manager is available and will call you at 19197447009. Thanks!   |             |                              |

## Escalate a Case – Contact via Phone

|     | You 6:51 AM  | DM |
|-----|--|----|
| -   | escalate 687405514   |    |
| Bot | TAC Connect (bot) 6:51 AM  |    |
| Bot | An escalation request will inform a manager that the case needs attention. The manager, duty manager or customer service representative will call you to discuss further. If you would like to raise severity or requeue the case, please use <b>/raise-severity</b> and <b>/requeue</b> commands. Would you still like to continue? Please enter 'Yes' or 'No'. |    |
|     | You 6:51 AM  |    |
| -   | Yes  |    |
|     | TAC Connect (bot) 6:51 AM  |    |
| Bot | Please provide the escalation reason. This will help the manager understand the situation better.  |    |
|     | You 6:51 AM  |    |
|     | Lack of timely progress  |    |
|     | TAC Connect (bot) 6:51 AM  |    |
| Bot | How would you like the manager to contact you? Please enter 'email' or 'phone'.  |    |
|     | You 6:52 AM  |    |
|     | phone  |    |
| -   | TAC Connect (bot) 6:52 AM  |    |
| Bot | Would you like to be called at 19197447009? Please enter 'Yes' to use this phone number or provide another phone number.   |    |
|     | You 6:52 AM  |    |
|     | yes  |    |
| •   | TAC Connect (bot) 6:52 AM  |    |
| Bot | Contacting the manager of the engineer assigned to this case. This may take up to 5 minutes.   |    |
|     | It looks like manager (joselmar@cisco.com) is not available.   |    |
|     | I'll contact a duty manager next. This may take up to 3 minutes.   |    |
|     | It looks like Duty Manager is not available. I'll put you in contact with a Customer Service Representative who will call you shortly.   |    |

### DM isn't available

## Escalate a Case – Contact via Email

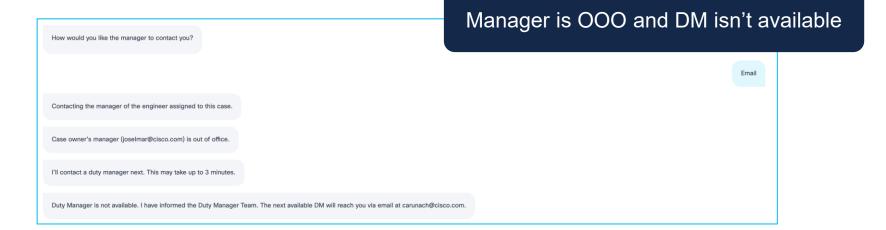
|     | You 6:56 AM<br>escalate 687405514  | Ma  | nager is in the office |
|-----|--|-----|------------------------|
| Bot | TAC Connect (bot) 6:56 AM<br>An escalation request will inform a manager that the case needs attention. The manager, duty<br>representative will call you to discuss further. If you would like to raise severity or requeue the<br><b>severity</b> and <b>/requeue</b> commands. Would you still like to continue? Please enter 'Yes' or 'No'.<br>You 6:57 AM |     |                        |
|     | Yes  |     |                        |
| Bot | TAC Connect (bot) 6:57 AM<br>Please provide the escalation reason. This will help the manager understand the situation bett  | er. |                        |
|     | You 6:57 AM<br>Lack of timely progress   |     |                        |
| Bot | TAC Connect (bot) 6:57 AM<br>How would you like the manager to contact you? Please enter 'email' or 'phone'.   |     |                        |
|     | You 6:57 AM<br>email   |     |                        |
| BOI | TAC Connect (bot) 6:57 AM<br>Contacting the manager of the engineer assigned to this case.<br>Manager joselmar@cisco.com will reach you via email at carunach@cisco.com. Thanks!   |     |                        |

## Escalate a Case – Contact via Email

### Manager is out of the office

| your experience 🙂 🙂  | 🗇 Docs and Videos 🛛 Chat in Webex Teams 🔿 Start Over 💿 Hel |
|--|--|
| message (Use Shift + Enter to add a new line)  | >  |
| Duty manager is available and will reach you via email at carunach@cisco.com. Thanks!  |  |
| I'll contact a duty manager next. This may take up to 3 minutes.   |  |
| Case owner's manager (joselmar@cisco.com) is out of office.  |  |
| Contacting the manager of the engineer assigned to this case.  |  |
|  | Email  |
| How would you like the manager to contact you?   |  |
|  | Lack of timely progress                                    |
| lease provide the escalation reason. This will help the manager understand the situation better.   |  |
|  | Yes  |
| Vould you still like to continue?  |  |
| An escalation request will inform a manager that the case needs attention. The manager, duty manager or customer service represent<br>use <i>fraise-severity</i> and <i>frequeue</i> commands. | ative will call you  |

## Escalate a Case – Contact via Email



The bot informs High Touch Operations Managers (HTOM) when a case is escalated by SP Advantage, TS Advantage or High Touch Expert Care customers.

## Reopen a Case

Sure. Let me check whether the case can be reopened.

This case can be reopened. Please provide the reason. This will help the engineer understand the situation better.

Problem reoccurred again and we have collected the logs this time

reopen 689517089

Thanks. Let me reopen the case.

I have reopened the case and informed the current case owner. The case owner or the next available engineer will reach out to you on next steps.

## Cases that are closed within the last 14 days can be reopened.



## Connect to Duo



## Connect to Duo Support

|  | connect to duo |
|--|----------------|
| Please enter your 10-digit Account ID in the<br>format 1234-5678-90.<br>1234-5678-90<br>Submit |                |
| Please enter a valid phone number without dashes (-)   |                |
| Select country code from dropdown then enter telephone number                                  | +19193926009   |
| Thanks! You will receive a callback from Duo Support.  | 131332003      |

Bot calls Duo support number, informs customer's account ID to engineer and then connects to customer via callback.



# Conversations: Talk to the Bot!



## Ask for Status of a Case, Bug and RMA

| TAC Connect Bot  | ×        | TAC Connect Bot  | ×        |
|--|----------|--|----------|
| OK, we'll start over.  |          | OK, we'll start over.  |          |
| Hello! I can help you get case, bug, RMA and BEMS details and<br>connect with Cisco TAC. You can make requests like:<br>• my cases<br>• what is the case status (case number)<br>• what is the bug status (bug number)<br>• what is the bug status (bug number)<br>• what is the BEMS status (berns number)<br>• connect with engineer (case number)<br>• create a virtual space (case number)<br>• request an update (case number)<br>• update the case (case number)<br>• raise severity (case number)<br>• requeue (case number)<br>• requeue (case number)<br>• close the case (case number) |          | Hello! I can help you get case, bug, RMA and BEMS details and<br>connect with Cisco TAC. You can make requests like:<br>• my cases<br>• what is the case status (case number)<br>• what is the bug status (bug number)<br>• what is the bug status (burn number)<br>• what is the BEMS status (berns number)<br>• connect with engineer (case number)<br>• create a virtual space (case number)<br>• request an update (case number)<br>• update the case (case number)<br>• raise severity (case number)<br>• requeue (case number)<br>• close the case (case number) |          |
| Please note that I support all cases that are opened from<br>Cisco.com Support Case Manager. Type " <b>/list commands</b> " to<br>get a list of command requests. Click here to view short demo<br>videos.   |          | Please note that I support all cases that are opened from<br>Cisco.com Support Case Manager. Type "/list commands" to<br>get a list of command requests. Click here to view short demo<br>videos.  |          |
| Listening  | -        | 687405514  | ≻ 🧕      |
| your experience 😳 🙁 🚺 Chat in WebEx Teams 🔿 Start Over   | (?) Help | Rate your experience 🙂 🙁 🚺 Chat in WebEx Teams 🍈 Start Over  | (?) Help |

Microphone and Send buttons



# Help, Commands Q&A, Feedback



## Help

#### You 12:45 AM

#### help



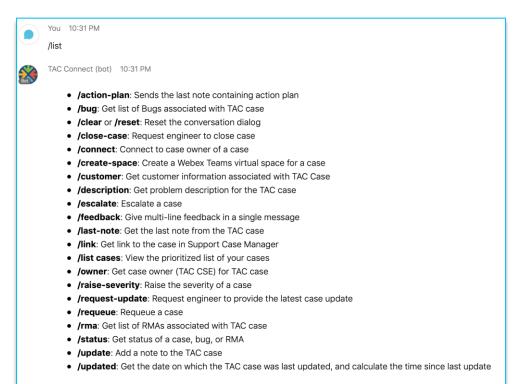
#### TAC Connect (bot) 12:45 AM

Hello! I can help you get case, bug and RMA details and connect with Cisco TAC. You can make requests like:

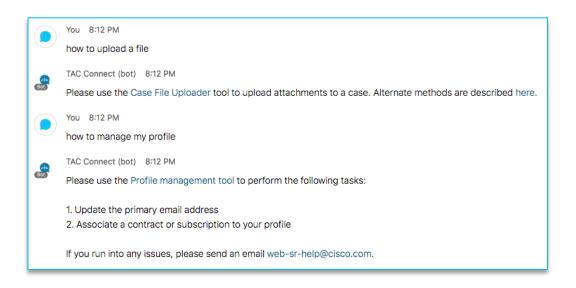
- my cases
- what is the status of (case number or bug ID or RMA number)
- connect with engineer (case number)
- create a virtual space (case number)
- request an update for (case number)
- update the case (case number)
- escalate (case number)
- raise severity (case number)
- requeue (case number)
- close the case (case number)

Please note that I support all cases that are opened from Cisco.com Support Case Manager. Type "/list commands" to get a list of command requests.

## Command List



## Simple Case Management Related Q&A







Bot

/feedback demo worked great!

TAC Connect (bot) 10:49 PM

Thanks! Your feedback has been provided to my creators.

### Bot Feedback



You 7:34 AM

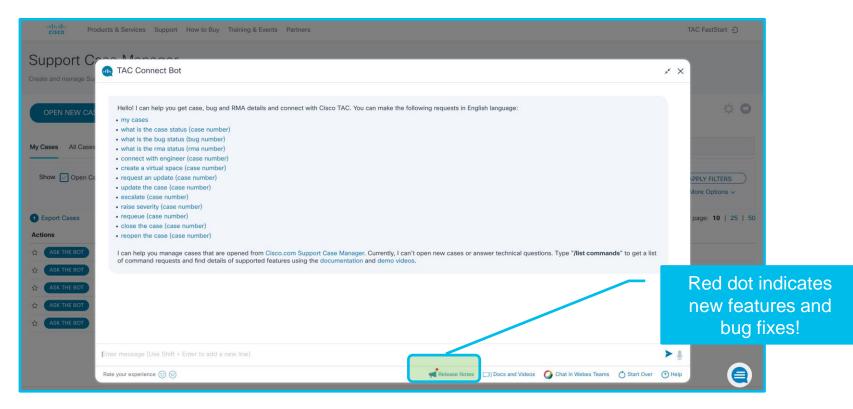
TAC Connect (bot) 7:34 AM

Thanks! I have updated the case with your feedback.

/case-feedback The case was handled well

### Case Feedback

### Latest Release-Notes in Web Interface



### Latest Release-Notes in Web Interface

#### Hello!

Thanks for taking the time to use me. Please find the latest Release-notes below.

#### July 31, 2020

Enhancements:

- · You can request a case to be re-opened if it was closed within the last 14 days.
- · You can request a case to be schedule dispatched by specifying the date, time and time zone.
- · Link to Release-notes is available in web interface.

#### Bug Fixes:

- · Case title is missing in "my cases" response. This is applicable only for Webex Teams desktop clients.
- · Concurrent requests of the same type (e.g. connect to engineer) must not be allowed.

#### June 28, 2020

Enhancements:

· Interact with me in the external virtual space associated with the TAC case.

#### June 26, 2020

Enhancements:

· You can request to be contacted via email for escalation follow-up.

Bug Fixes:

• %20 is displayed in Engineer and Manager phone number instead of space character.

#### May 29, 2020

Enhancements:

- · Phone number input made easy in web interface!
- Case owner manager information is shown in case status response.
- The definition of case escalation is explained and confirmation obtained prior to escalation.

## Automatic Release Notifications in Webex Teams



TAC Connect (bot) 12:42 AM

Hello! I just got upgraded today!

Please find Release-note details below:

#### New intents:

• create a virtual space «case number»

#### New commands:

• /create-space: Create a Webex Teams virtual space for a case

#### Enhancements:

- When a customer or partner clicks the "Chat with your TAC Personal Assistant using Webex Teams", the system displays the email address that will be used to create a 1:1 space with the user and bot.
- "connect with engineer" is now allowed for cases closed within the last 14 days.

#### Bug Fixes:

• Incorrect intent detection for /owner and /last-note commands.

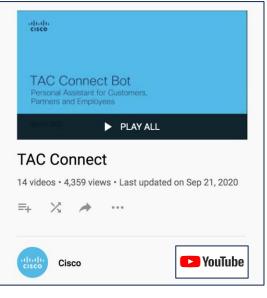
Thanks for taking the time to use TAC Connect bot!



## Take Action



### Call To Action Use Virtual Spaces and TAC Connect Bot to Save Time!



### Video Playlist

### <u>At-a-Glance</u> | <u>Support Case Manager</u> | <u>Get Started</u>



Customer Blog

Chuck Robbins on CNBC praises the TAC Connect BOT and Webex Warriors (Covid volunteers)



"When you're in a crisis, there's tons of creativity, there's a huge desire to help & you just do things. You don't think about it, you don't plan, you just get it done." Strong words from @Clisco's @ChuckRobbins about organizational resilience. #CNBCatWork



Cisco on Cisco

## Polling Question 3

Will you use TAC Connect Bot in the future?

A. Yes

B. No

Make your wish (enhancements) for TAC Connect Bot:

(Please write your comments)

## 

Please visit <u>Cisco.com page</u> and contact <u>tac-connect@cisco.com</u> for questions and feedback.

## Submit Your Questions Now!



Use the Q&A panel to submit your questions, our expert will responde

## Ask Me Anything following the event

Now through Friday November 27<sup>th</sup>, 2020

With Arun, Paul & Michael

https://bit.ly/ama-TACcboot



Arun Arunachalam Principal Engineer



Paul Anholt Technical Leader



Michael Whitaker Technical Engineer CCIE #5187

## Collaborate within our Social Media

### Twitter

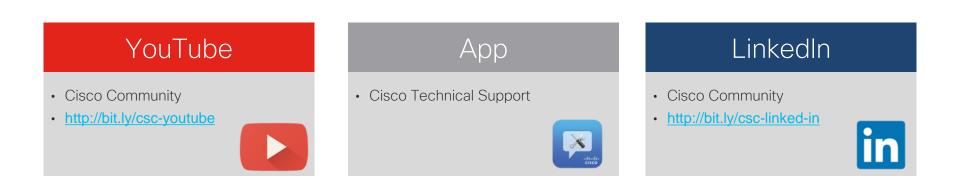
@Cisco\_Support
 http://bit.ly/csc-twitter

### Facebook

Cisco Community
 <u>http://bit.ly/csc-facebook</u>

### Learn About Upcoming Events

# We invite you to review our Social Media Channels



#### © 2020 Cisco and/or its affiliates. All rights reserved

### Learn About Upcoming Events®



Find further events and sessions on the Cisco Community

Check the events calendar here: <u>https://community.cisco.com/t5/custom/page/page-</u> id/Events?categoryld=technology-support

## Thank you for Your Time!

## Please take a moment to complete the survey

© 2020 Cisco and/or its affiliates. All rights reserved.



# Thanks For Joining today!

ılıılı cısco