



December Expert Series Webcast – English

Topic: PowerVu Network Control System

Ron Weaver
TAC Engineer

12/10/2013

Cisco Support Community – Expert Series Webcast

- Today's featured expert is Technical Leader Ron Weaver
- Ask him questions now about PowerVu Network Control System



Ron Weaver

Technical Leader

Digital Media Network Team

Topic: PowerVu Network Control System

December 10, 2013

Panel of Experts



Fred Yee
TAC Support Engineer
DMN Technology



Albert Julio Ulloa
TAC Support Engineer
DMN Technology

Thank You for Joining Us Today

Today's presentation will include audience polling questions

We encourage you to participate!



Thank You for Joining Us Today

If you would like a copy of the presentation slides, click the PDF link in the chat box on the right or go to

<https://supportforums.cisco.com/community/netpro/service-providers>

Or, <https://supportforums.cisco.com/docs/DOC-38510>



Polling Question 1

How many people have worked with the PNC before?

- a. I have worked with PNC before
- b. I'm familiar with PNC but have never worked with it
- c. I am interested in PNC
- d. I do not know what PNC means

Submit Your Questions Now!

Use the Q&A panel to submit your questions. Experts will start responding those





Cisco Support Community Expert Series Webcast:

PowerVu Network Control System

Ron Weaver

Technical Leader, Digital Media Network Team

December 10, 2013

Agenda

- Virtual Channels

We will discuss Virtual channels and how to create through the PNC GUI. Also how Tiers works for controlling access to the VC.

- Decoder Management

Loading decoder, by disk or file

Authorizing decoder for tiers

- Events

What is a PNC event.

How to create.

Types of events

- Q & A



Building Virtual Channels

Live Demonstration



Virtual Channels

- What is a Virtual Channel?

Virtual channels are the same as MPEG program numbers

- Creating a Virtual Channel.

Channel numbers are shared across signals in multi signal system.

Type is used for doing service replacement

- Configuring the Tiers

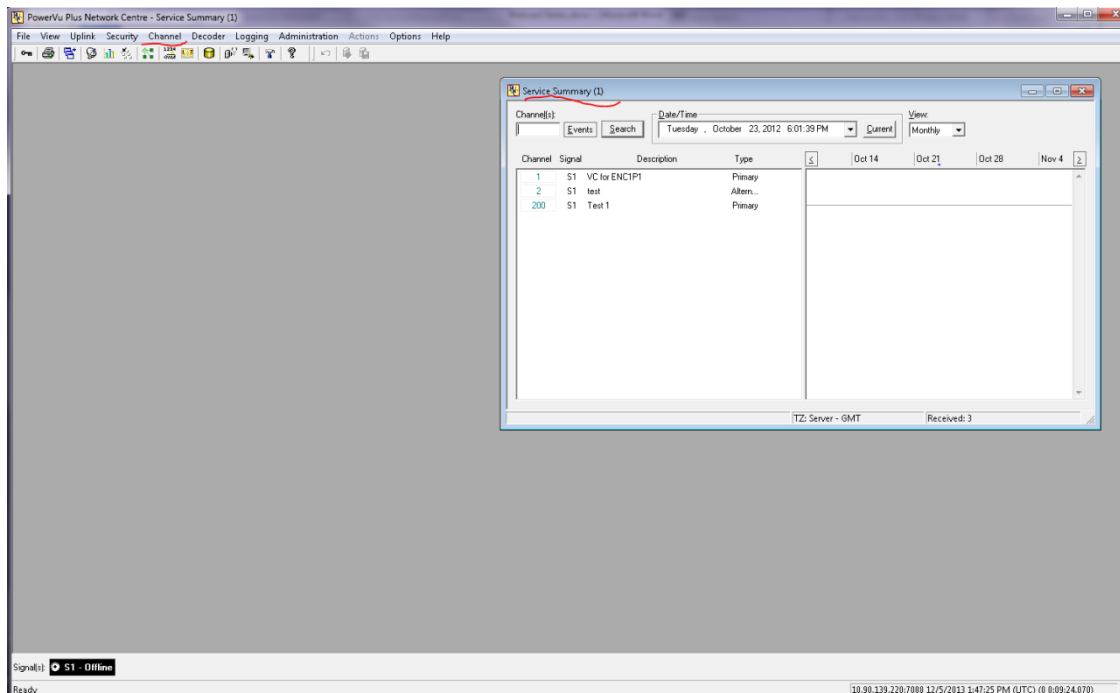
Channels can be associated to multiple tiers

- Scrambling the services.

Scrambling is done on the services not the channel.



Creating a Virtual Channel



Configuring the channel

Service Assignment - 200 - Test 1 (2)

General CA RCD

Name: Test 1

Channel: 200 Signal: S1 Type: Primary

Service Type: Digital TV 0

Customer:

Properties

☒ Enable ☒ CA Scramble ☐ Scrambling Controllable ☐ Broadcast Flag

Service Streams

PMT PID: 5200 ECM PID: 6200

Stream References:

Name	Type	PID	Lang Code	Scr Control	Scr Grp	Component Tag
MMX1P...	PCR	110		On	2	
MMX1P...	Video	110		On	2	
MMX1P...	Dolby ...	101		On	2	
MMX1P...	DPI	120			2	

Service Assignment - 200 - Test 1 (2)

General CA RCD

Name: Test 1

Channel: 200 Signal: S1 Type: Primary

Scrambling Action

Blackout/Spotlight

Code: 00001

Tiers

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

Managing Decoders

Live Demonstration



Decoder Management

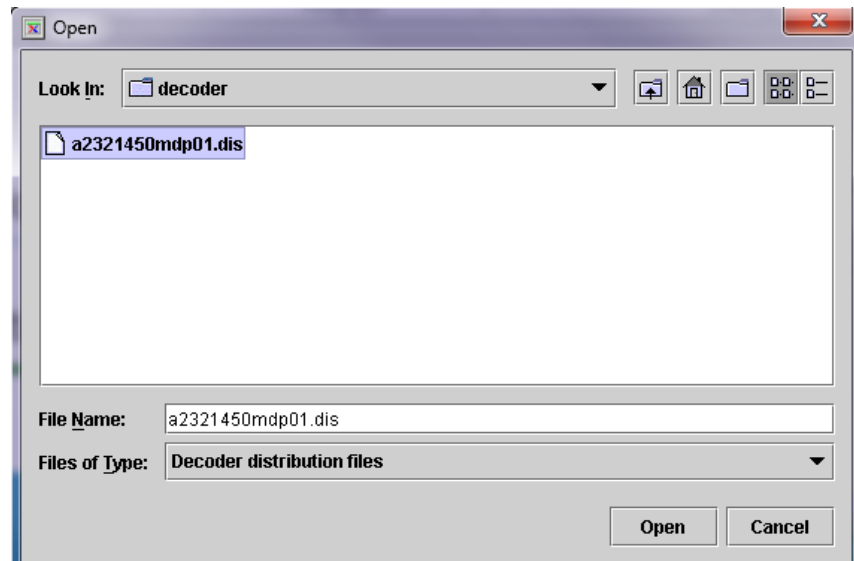
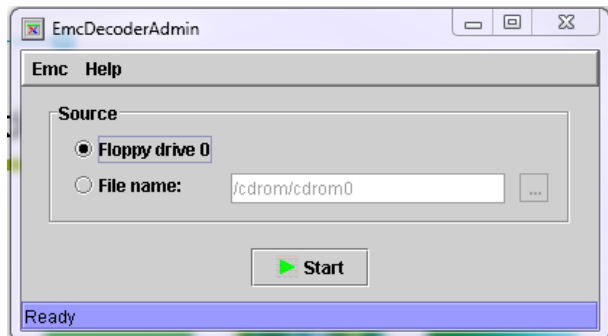
- Loading Decoders into the server
 - Can either be done from disk or file depending on the agreement with Cisco
- What is the difference between a UA# and a TID#
 - TID's are Tracking Id, will not change
 - UA# may change in the ISE (internal security element) if it ever fails.
- Authorizing / De-authorizing a decoder for a Virtual Channel(s)
 - Tiers determine what Channels the decoder is authorized to decode.
- Blackout codes
 - Used for event when a decoder is not authorized to receiver a program.
- Output controls
 - Determines what the receiver will output.

Polling Question 2

When authorizing a decoder, do you know the difference between Install =Yes, No and Disabled?

1. I do not know the difference
2. I do know the difference
3. This question does not apply to me

Loading Decoders



Decoder Search

Decoder Search (1)

Selection Criteria

Item	Criteria
------	----------

Item:

☐ Order by:

Name:

Selected Decoders

User Address	Tracking Id	Company	Address	City/Town	Phone Number	Code A	Blackout Code 1
--------------	-------------	---------	---------	-----------	--------------	--------	-----------------

TZ: Server - GMT

Authorizing decoders

Decoder Profile - 5292439 (1)

User Address: 5292439 Tracking ID: 823282000071 Model: D9858 ART
Installed: Yes Last Edited: 12/3/2013 7:57:24 PM Load Method: DISK

Admin Configuration Blackouts/Triggers Program Tiers Output Auth Transcoder

Customer:
Admin:
Company: Cisco
Address:
City/Town:
Province/State: Postal/Zip Code:
Country:
Contact:
Contact 2: Contact 3:
Phone: Mobile:
E-Mail:
Code: A: B:
C: D:
Affiliate Id: System Id: Headend Id:
Notes:

TZ: Server - GMT

Decoder Profile - 5292439 (1)

User Address: 5292439 Tracking ID: 823282000071 Model: D9858 ART
Installed: Yes Last Edited: 12/3/2013 7:57:24 PM Load Method: DISK

Admin Configuration Blackouts/Triggers Program Tiers Output Auth Transcoder

Service Name:

Select All Clear All Invert Selection

Tiers:

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

TZ: Server - GMT

Polling Question 3

In your system, do you regularly use the PNC event scheduler?

1. Yes, I use PNC event schedule regularly
2. I sometimes use PNC event scheduler
3. No, I have never used PNC event scheduler

PNC Events

Live Demonstration



PNC Events

- What is a PNC Event

An event is something that can be scheduled ahead of time to perform some function on a Channel.

- Creating an event

Under the Channel tab select Event schedule

Ping the Virtual channel for the Event

Add an event, set the start date and time, set the end date and time

- Type of events

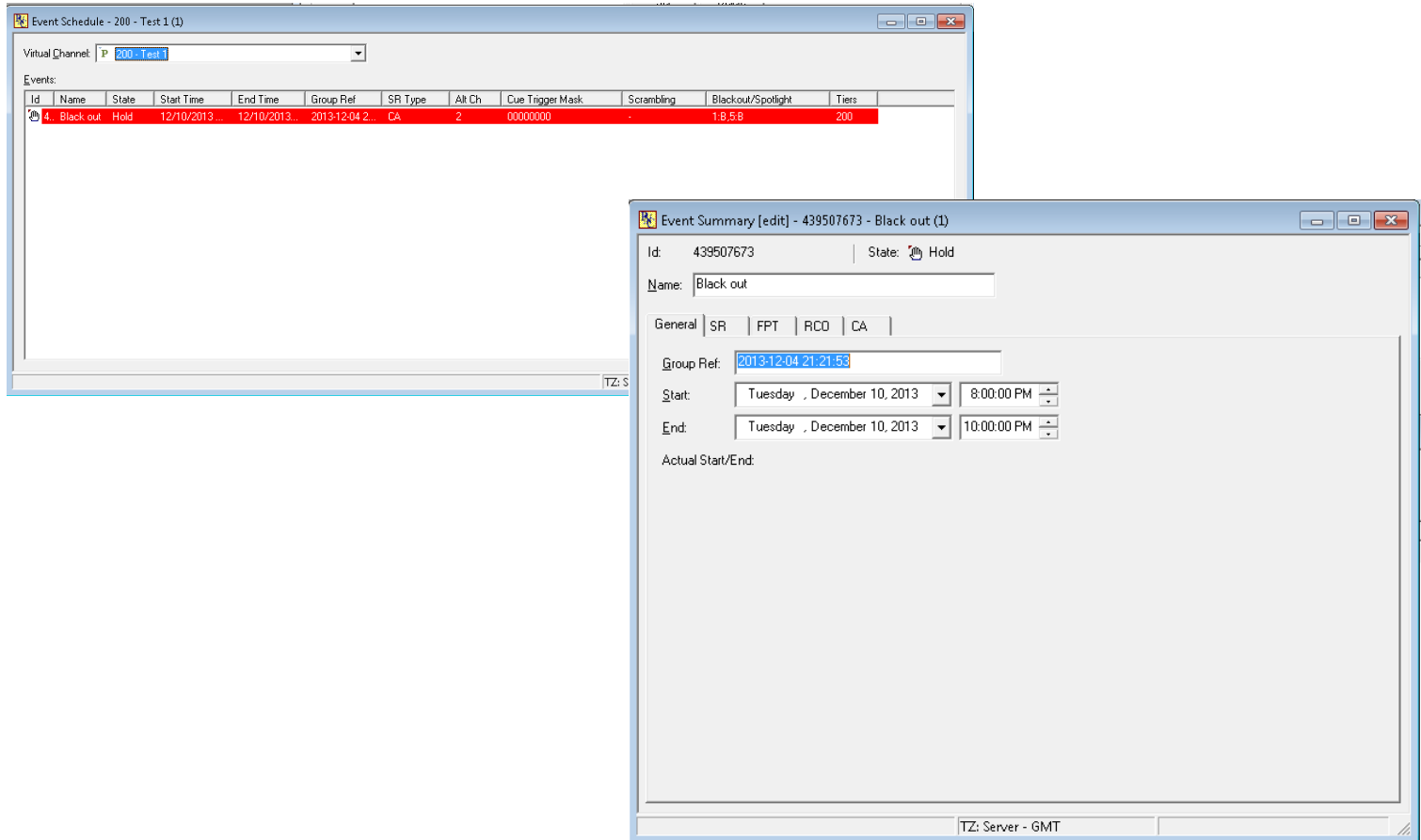
Service Replacement

CA

Scheduled



Event Schedule



The image displays two overlapping software windows from a Cisco system. The background window, titled "Event Schedule - 200 - Test 1 (1)", features a dropdown menu for "Virtual Channel" set to "P 200 - Test 1". Below this is a table of events. The foreground window, titled "Event Summary [edit] - 439507673 - Black out (1)", provides detailed information for a specific event.

Event Schedule - 200 - Test 1 (1)

Virtual Channel: P 200 - Test 1

Events:

Id	Name	State	Start Time	End Time	Group Ref	SR Type	Alt Ch	Cue Trigger Mask	Scrambling	Blackout/Spotlight	Tiers
4	Black out	Hold	12/10/2013 ...	12/10/2013...	2013-12-04 21:21:53	CA	2	00000000	-	1 B 5 B	200

Event Summary [edit] - 439507673 - Black out (1)

Id: 439507673 | State: Hold

Name: Black out

General | SR | FPT | RCD | CA

Group Ref: 2013-12-04 21:21:53

Start: Tuesday, December 10, 2013 8:00:00 PM

End: Tuesday, December 10, 2013 10:00:00 PM

Actual Start/End:

TZ: Server - GMT

References

- <http://www.cisco.com/en/US/partner/products/ps12197/index.html>
- http://www.cisco.com/en/US/partner/products/ps12197/products_data_sheets_list.html

Submit Your Questions Now!

Use the Q&A panel to submit your questions. Experts will start responding those



We Appreciate Your Feedback!

Those who fill out the Evaluation Survey will enter a raffle to win:

\$50 Amazon Gift Card

To complete the evaluation, please click on link provided in the chat or in the pop-up once the event is closed.

Ask The Experts Event (with Ron Weaver)



If you have additional questions, you can ask them to Ron. He will be answering from December 10 to December 20, 2013

<https://supportforums.cisco.com/thread/2255073>

You can watch the video or read the Q&A 5 business days after the event at

<https://supportforums.cisco.com/community/netpro/ask-the-expert/webcasts>



Trivia Question

(select the correct answer)

What do Cisco's PowerVu and golf have in common?

- A.** The Golf Channel installed the PowerVu digital content distribution system at its headquarters to deliver digital program feeds to North America, Asia and Europe.
- B.** Cisco's PowerVu is an official sponsor of the PGA Tour.
- C.** St. Andrew, home of Golf, installed the PowerVu digital content distribution system to deliver digital program feeds for all tournaments played there.

December Expert Series Webcast - Russian

Topic: FabricPath Technology Overview



Tuesday, December 17, 2013

12:00PM Moscow Time

9:00AM Brussels Time

Join Cisco Expert:

Aleksandr Blusenzov

During the live event, Cisco expert Aleksandr Blusenzov will cover data-forwarding concepts and fabric path features. He will also touch upon several important concepts such as L2/L3 design approaches and scalability.

Register for this live Webcast at:

http://tools.cisco.com/gems/cust/customerSite.do?METHOD=E&LANGUAGE_ID=R&SEMINAR_CODE=S19427&PRIORITY_CODE=

December Expert Series Webcast - Spanish

Topic: Telepresence Management Suite for Microsoft Exchange (TMSXE): Use Recommendations and Troubleshooting



Wednesday, December 18, 2013

9:00AM Mexico City

10:30AM Caracas

12:00PM Buenos Aires

4:00PM Madrid

Join Cisco Expert:

Hugo De La Cruz

During the live event, Cisco expert Hugo De La Cruz will cover TMSXE service, use, recommendations, installation, migration scenarios and troubleshooting.

Register for this live Webcast at:

http://tools.cisco.com/gems/cust/customerSite.do?METHOD=E&LANGUAGE_ID=S&SEMINAR_CODE=S19553&PRIORITY_CODE=

January Expert Series Webcast - English

Topic: Understanding and Managing Cisco Unified Communications Managers Certificates



Tuesday, January 7, 2014

11:30AM India Standard Time

7:00AM Paris

5:00PM Sydney

10:00PM PDT San Francisco (Monday, January 6, 2014)

Join Cisco Expert:

Akhil Behl

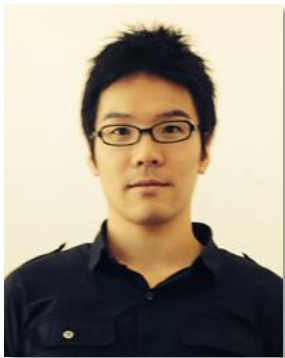
During the live event, Cisco subject matter expert Akhil Behl will focus on various certificate types available on Cisco Unified Communications Manager. This session will build on the concept of Cisco Collaboration PKI from a Cisco Unified Communications Manager perspective.

Register for this live Webcast at:

http://tools.cisco.com/gems/cust/customerSite.do?METHOD=E&LANGUAGE_ID=E&SEMINAR_CODE=S19542&PRIORITY_CODE=

January Expert Series Webcast - Japanese

Topic: Virtual Port Channel (vPC)



Tuesday, January 14, 2014

10:00AM JST Tokyo

5:00PM PDT San Francisco (Monday, January 13, 2014)

Join Cisco Expert:

Takuya Kishida

During this live event, the expert Takuya Kishida will focus on the behavior of virtual Port Channel (vPC) which is a typical but major function of Cisco Nexus switches.

Register for this live Webcast at:

http://tools.cisco.com/gems/cust/customerSite.do?METHOD=E&LANGUAGE_ID=J&SEM_INAR_CODE=S19449&PRIORITY_CODE=

Ask the Expert Events – Current English

Topic: Understanding, Configuring, and Troubleshooting a Converged Networking Using the Cisco Catalyst 3850 Series Switch

Join Cisco Experts: **Luke Primm, Colby Beam and Nicholas Tate**

Learn and ask questions about converged networks using the Cisco Catalyst 3850 Series Switch

Ends December 13

Topic: Configuring and Troubleshooting 802.1x

Join Cisco Expert: **Javier Henderson**

Learn and ask questions about how to configure and troubleshoot 802.1x

Ends December 13

Join the discussion for these Ask The Expert Events at:

<https://supportforums.cisco.com/community/netpro/expert-corner#view=ask-the-experts>

Ask the Expert Events – Upcoming English



Topic: Installing, Integrating, and Troubleshooting Unity Connection

Join Cisco Expert: **Justin Dew**

Learn and ask questions about integrating Cisco Unity Connection into your environment and troubleshooting the many features that are available with the Cisco Unity Connection voicemail solution.

Starts December 16



Topic: Understanding, Configuring, and Troubleshooting IS-IS for IP on Cisco Routers

Join Cisco Expert: **Vignesh R.P.**

Learn and ask questions about how to configure and troubleshoot IS-IS for IP on Cisco Routers

Starts December 16

Join the discussion for these Ask The Expert Events at:

<https://supportforums.cisco.com/community/netpro/expert-corner#view=ask-the-experts>

We invite you to actively collaborate in the Cisco Support Community and social media

<https://supportforums.cisco.com>



<http://www.facebook.com/CiscoSupportCommunity>



http://twitter.com/#!/cisco_support



<http://www.youtube.com/user/ciscosupportchannel>



<http://tinyurl.com/cscgoogleplus>



<http://tinyurl.com/cscitunesapp>



<http://tinyurl.com/cscandroidapp>



<http://tinyurl.com/csclinked>



Newsletter Subscription: <http://tinyurl.com/csc-newsletters>

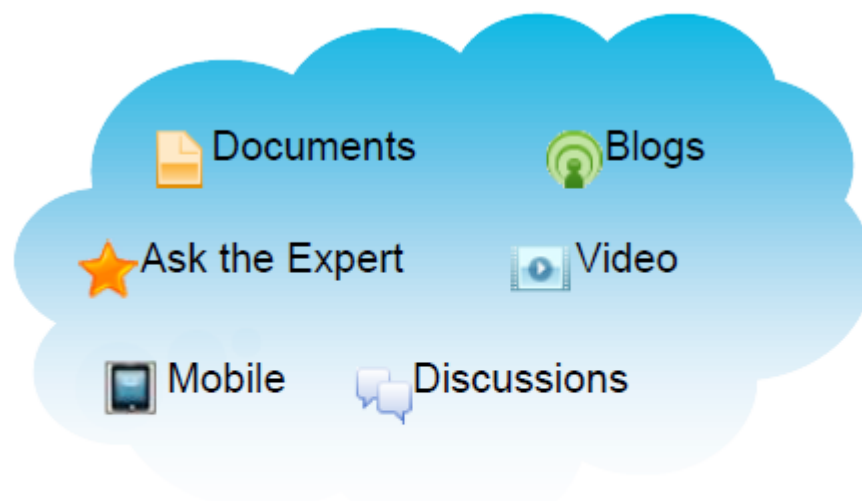
We have communities in other languages

If you speak **Spanish, Portuguese, Japanese or Russian**, we invite you to ask your questions and collaborate in your language:

- Spanish → <https://supportforums.cisco.com/community/spanish>
- Portuguese → <https://supportforums.cisco.com/community/portuguese>
- Japanese → <https://supportforums.cisco.com/community/csc-japan>
- Russian → <https://supportforums.cisco.com/community/russian>

Join the Cisco Support Community

- **Free** for anyone with Cisco.com registration
- Get **timely** answers to your technical questions
- Find **relevant** technical documentation
- Engage with over 200,000 **top technical experts**
- **Seamless** transition from discussion to TAC Service Request (*Cisco customers and partners only*)



The Cisco Support Community is your one-stop community destination from Cisco for sharing current, real-world technical support knowledge with peers and experts.

<https://supportforums.cisco.com>

Rate Support Community's Content

Now your ratings on documents videos and blogs count give points to the authors!!!

So, when you contribute and get ratings you now get the points in your profile.

Help us recognize the good quality content in the community and make your searches easier. Rate content in the community.



<https://supportforums.cisco.com/community/netpro/idea-center/cafe/blog/2013/06/07/ratings-extended-to-documents-blogs-and-videos>

Cisco Technical Support Mobile App



Global community members can collaborate with colleagues and other support professionals with easy, on-the-go access to the community's breadth of technical resources in their local language.



With the latest version of the mobile app, you can now access the Spanish, Portuguese, Japanese and Russians communities.

<https://supportforums.cisco.com/community/netpro/online-tools/mobile-technical-support>

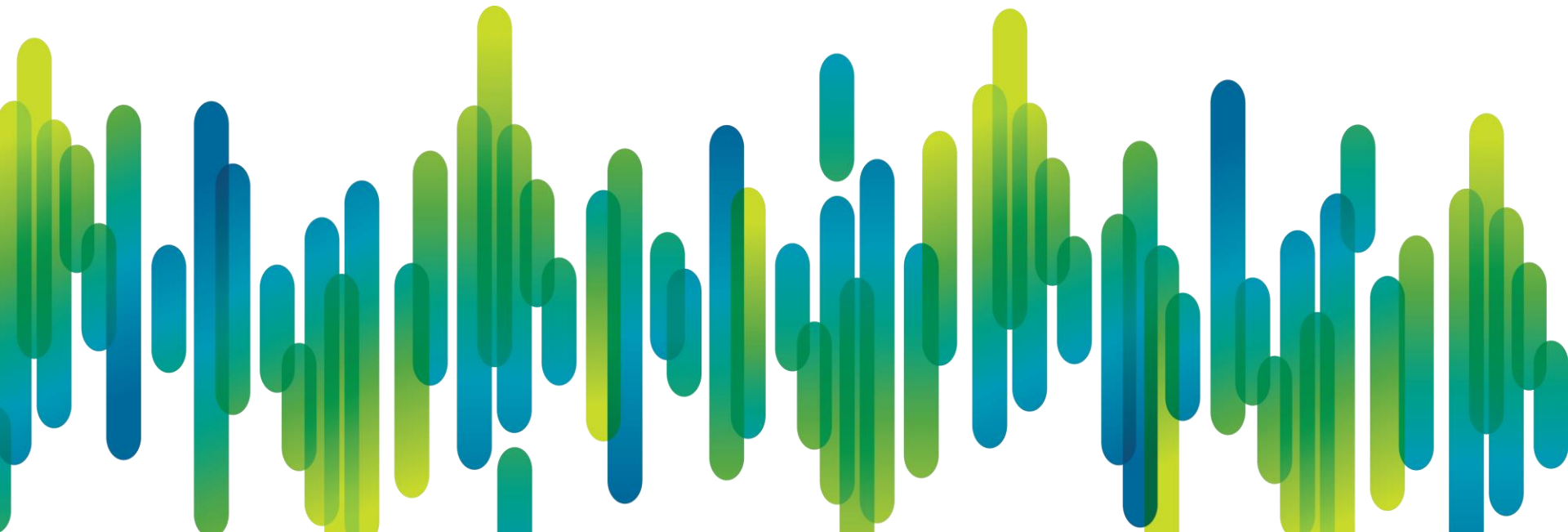
Trivia Question

What do Cisco's PowerVu and golf have in common?

- A. The Golf Channel installed the PowerVu digital content distribution system at its headquarters to deliver digital program feeds to North America, Asia and Europe.**
- B. Cisco's PowerVu is an official sponsor of the PGA Tour.
- C. St. Andrew, home of Golf, installed the PowerVu digital content distribution system to deliver digital program feeds for all tournaments played there.

Thank You for Your Time

Please Take a Moment to Complete the Evaluation



Thank you.

