



Webex Troubleshooting and Analytics

Control Hub and APIs

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Agenda

- Collaboration troubleshooting caveats
- Control Hub (Troubleshooting and endpoint management)
- Control Hub (Alerting and Analytics)
- Thousand Eyes / Collaboration network performance
- Webex APIs and Analytics
- Conclusion

Some troubleshooting caveats



Some troubleshooting caveats



End to end call statistics



Webex data and TAC escalation



Require a lot of details from the client



Some troubleshooting caveats



Statistics on historical data.



Alerting on poor call statistics.



Time it takes to provide root cause.



Benefits of using Control Hub



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Benefits of using Control Hub

- Have overview of the whole conference from a single view.
 - Type of endpoint or client
 - JMT (Join Meeting Time)
 - Host
 - Meeting type, duration,....
 - Connection type (WiFi / Wired)
 - What media node is connected to.
 - Network statistics for the duration of the call
- The admin will be able to Join the conference if needed to evaluate the issue reported and to troubleshoot live.



Demo Analytics - Quality Metrics

Control Hub (Endpoint management)



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Benefits of using Control Hub (Endpoint management)

- Able to download logs and apply configuration changes from Control Hub. No matter if the endpoint is on or off net.
- There is a new feature to Device management, we are able to push webapps (Endpoints with Web Engine - Desk Pro) that can help us, for example, set a link to webapp: mediatest.webex.com that the client can run for us and provide an insight to the endpoint network connection.



Demo

Control Hub (Alerting)



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Benefits of using Control Hub (Alerting)

- Alerts allows us to get alerts live, on meetings that are currently taken place of potential connection issues.
- It has been a good addition to troubleshooting tools since this is bringing this data forward to us and warning us when there is a potential poor conferencing experience.
- Packet loss, Jitter, Latency are the parameters measured. And when this surpass certain thresholds we will get alerted via email or Webex app integration.



Demo

Control Hub (Analytics – Quality metrics)



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Benefits of using Control Hub (Analytics - Quality Metrics)

- Get an overall view of past meetings data that can help us understand what our Collaboration environment in Cisco looks like.
- Data breakdown by theater or country.
- Breakdown by platform (Windows, Mac, Android, iOS), Connection (WiFi, cable, mobile data), by participant experience.



Demo

Network Path Performance Troubleshooting



"How can we troubleshoot Webex network path performance issues?"



Network Path Performance Troubleshooting













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Network Path Performance Troubleshooting



SIP Ingress

 Heath monitoring and visualization of Cisco Expressway ingress routing

Cisco.webex.com TCP/HTTP Path

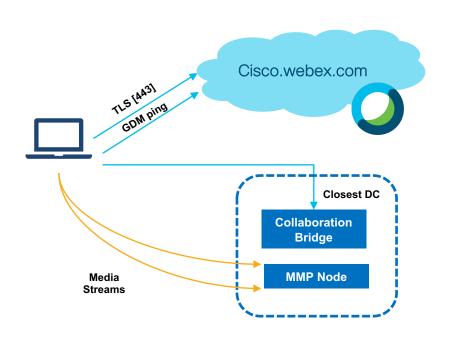
 Visualization of internal and external global traffic routing

Client LAN Network Health

 Endpoint agent monitoring view of Webex quality issues



Network Path Performance Troubleshooting



- Soft client connects to cisco.webex.com
- Discovers closest data center based on ping
- 3. Makes TLS connections to Collaboration Bridge
- 4. Creates two STUN connections to the Multimedia Platform Node over UDP 9000/5004 for VoIP audio and video streams



Demo

Webex APIs and Analytics



"How can we use Webex data with external data sources to answer business questions?"



Webex APIs and Analytics



- Join up Webex utilization and performance data with external data sources
- Add data from human resources, compute, workplace
- Use APIs, code, and cloud infrastructure to create robust data analytics pipeline
- Work from home, telecom spend, device utilization trends

Webex APIs and Analytics



- Register an integration at developer.webex.com
- Create a cloud function to collect data
- Use APIs, code, and cloud infrastructure to create robust data analytics pipeline
- Work from home, telecom spend, device utilization trends



Demo



Thank you



