Let's go cisco live! #CiscoLive



The Evolution of Content Distribution in Venue and Outside of Venue

Chris Lapp
Technical Solutions Architect
PSOIND-1010



Cisco Webex App

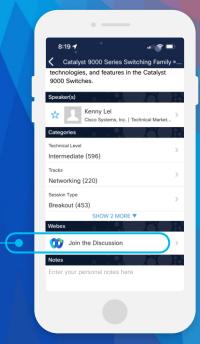
Questions?

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

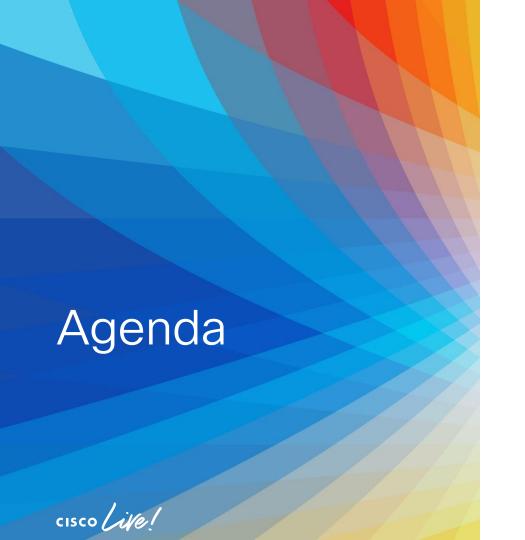
How

- 1 Find this session in the Cisco Live Mobile App
- 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 June 9, 2023.

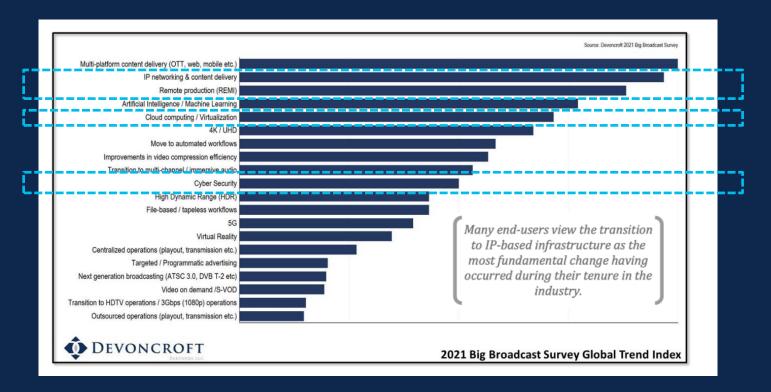


https://ciscolive.ciscoevents.com/ciscolivebot/#PSOIND-1010



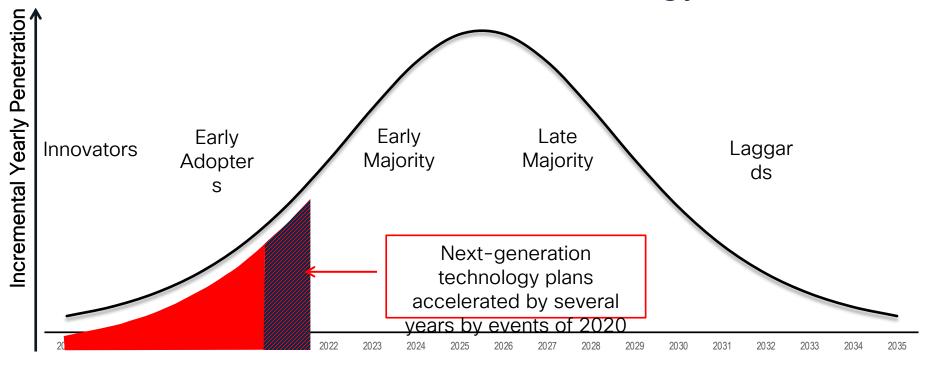
- Introduction
- IP is trending up
- Media Blueprint
- IP for Media
- Customer Stories
- Conclusion

2021 Big Broadcast Survey Trend Index





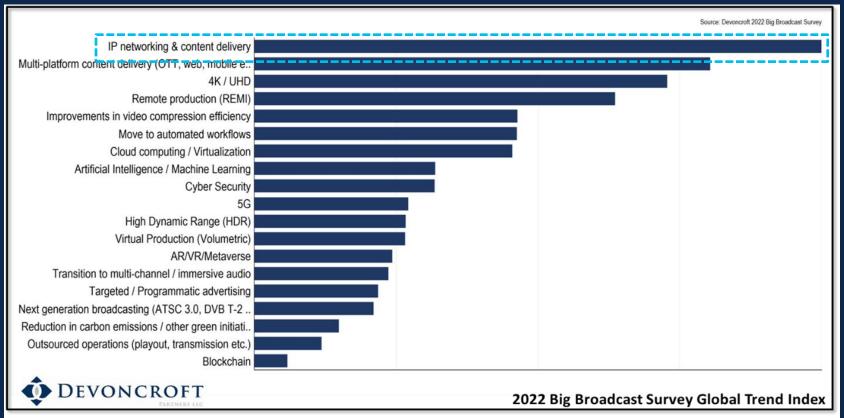
IP Transition (ST 2110) is Accelerating Devoncroft M&E IP Technology Penetration Cι



Source: Devoncroft Big Broadcast Survey 2014 - 2020

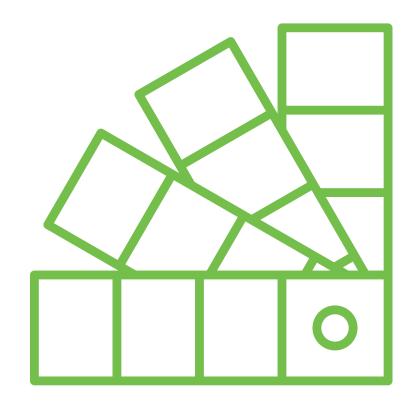


2022 Big Broadcast Survey Trend Index





Media Blueprint





Blueprint for Media and Entertainment Business









IP Fabric for Media



Cyber Security for all workflows















CANAL+ rtve sky Rai



Rai Way











Media Networking

Sustainability

Smart Enterprise

(Ex: SDN/Automation & 5G) (Circular Design, operation and solutions)(Ex: SDA, WiFi-6, Hybrid Workplace)























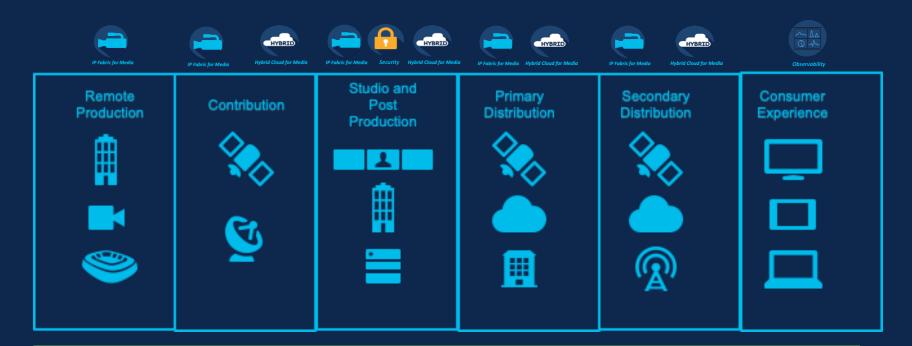




Cisco CX deliverables for broadcast projects



End to End Media Workflow



End to End Solutions for Media Workflows



Paris 2024

Cisco is an official partner of Paris 2024 Olympics and Paralympics Games





Official partner for Network infrastructure



Official partner for Cybersecurity infrastructure



Official partner for Collaboration software

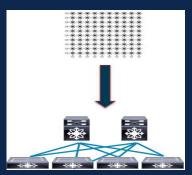


IP Fabric for Media Enabling transition to SMPTE ST 2110



Industry Challenges and Requirements

While networks have been carrying multicast flows for a very long time, there are unique requirements this use case brings due to the nature of the traffic(uncompressed flows) and the requirement to assure zero drop transport or guarantee delivery of flows (for live production).



Reliable Network
(Zero Packet Loss, Ultra Low Latency and Minimal Jitter)

Architecture Choice (deployment flexibility for OBVan, Studio, MCR...)

Flow Health and Visibility Monitoring

Precision Timing

Network Security

Unchanged Operator Workflow

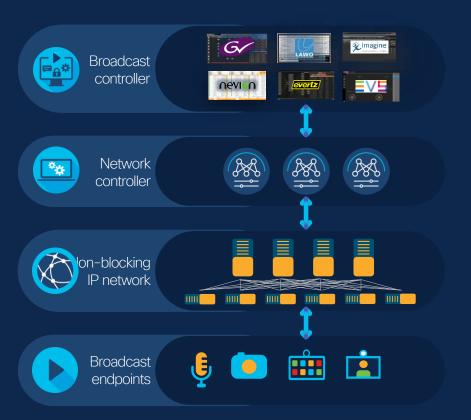


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Cisco IP Fabric for Media



Shipping





OB van/truck

Deployment



blocking IP fabric

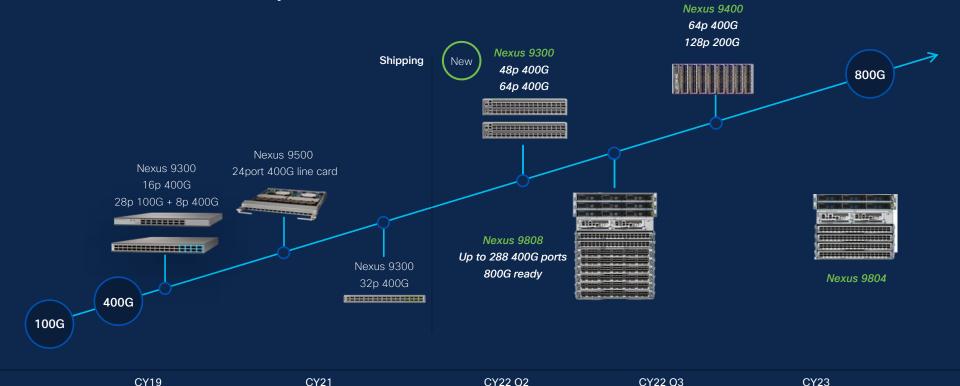
Highly scalable multicast and PTP timing

Highly secure admission control and policing

Turnkey automation and deep visibility with NDFC



Nexus 9000 portfolio evolution





CY19

Cloud service providers



Telco service providers



Enterprise



Media networks

CY23

IPFM Summary and Benefits



IPFM Solution Benefits & Summary



Unchanged Operator Workflow





Integration with Broadcast Partners



Deterministic network





Non-blocking Network design using bandwidth aware PIM



Flexible Architecture





Spine-leaf, Hybrid Spine-leaf, Single Modular Chassis



IPFM Solution Benefits & Summary



Host and Flow Policies





Network Security



Host & Flow Visibility RTP and PTP monitoring





Visibility and Monitoring



SMPTE 2059-2, AES67 profile





PSOIND-1010

Precision Timing



IP Fabric for Media Customer References





Nine Australian Full IP Production Center







- First and largest broadcast centres to run entirely over Internet Protocol (IP) in Australia in Nine's new North Sydney office, with Cisco supporting the organisation's transition to dital.
- Cisco IPFM, N9k and DCNM, with Lawo VSM and Smart Dash

"For us, it's a bit like switching the production and business model from black and white to color. It's the future of broadcasting and together with Cisco, we're shaping it."

Geoff Sparke, Director of Broadcast Operations, Nine

https://www.cisco.com/c/en/us/about/case-studies-customer-success-stories/nine.html#~summary



SoFi Stadium - Hollywood Park





- World's most technologically advanced stadium
- Best in breed Cisco technologies
 - 4K Cisco Vision Deployment
 - 4K HDR IP based production facility powered by IPFM (PCR with Evertz Magnum)
 - Cisco WiFi 6

https://www.cisco.com/c/m/en_us/solutions/industries/sports-entertainment/sofi-stadium-interactive.html



Real Madrid Stadium

cisco





IP Production
Center IPFM



IT SW Defined DC

ACI



IT SW Defined
Campus

SDA + WiFi6

https://newsroom.cisco.com/c/r/newsroom/en/us/a/y2022/m03/cisco-and-real-madrid-team-up-to-power-europe-most-connected-stadium.html



Super Bowl LVII New IP Production Control Room







- Best in breed Cisco technologies
 - IP based Production Control Room powered by IPFM (Spine and Leaf)
 - Cisco WiFi 6
 - Catalyst 9k campus network

https://www.sportsvideo.org/2023/02/11/live-from-super-bowl-lvii-arizona-cardinals-put-new-ip-capable-control-room-to-the-test-on-nfls-biggest-stage/

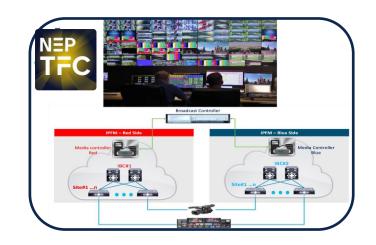
https://stadiumtechreport.com/feature/wireless-upgrades-have-state-farm-stadium-prepared-for-super-bowl-lvii/



Large Sports OB Broadcasting



From the POC, our preliminary conclusion is that the Cisco solution offers superior performance

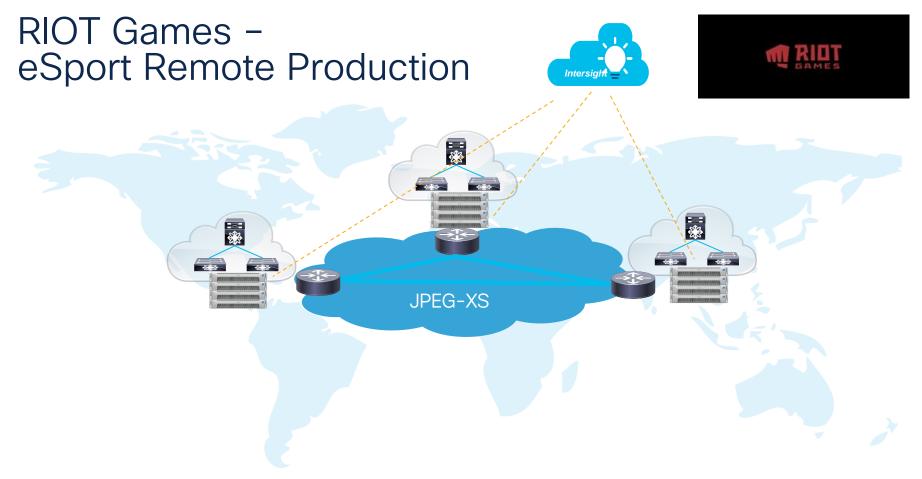


8 Stadiums

32 Training Sites

4 Outside Presentation Facilities





https://www.sportsvideo.org/2021/10/28/riot-games-takes-esports-production-global-with-project-stryker-remote-broadcast-centers-in-dublin-seattle-apac/



Formula 1 - Remote Production



London PCR and Post Production





Fill out your session surveys!



Attendees who fill out a minimum of four session surveys and the overall event survey will get **Cisco Live-branded socks** (while supplies last)!



Attendees will also earn 100 points in the **Cisco Live Challenge** for every survey completed.



These points help you get on the leaderboard and increase your chances of winning daily and grand prizes



Continue your education

- Visit the Cisco Showcase for related demos
- Book your one-on-one Meet the Engineer meeting
- Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs
- Visit the On-Demand Library for more sessions at www.CiscoLive.com/on-demand



Thank you



Cisco Live Challenge

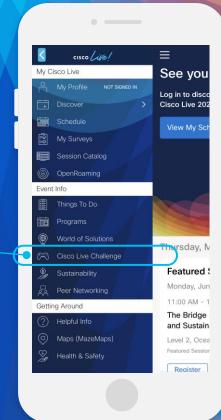
Gamify your Cisco Live experience! Get points for attending this session!

How:

- 1 Open the Cisco Events App.
- 2 Click on 'Cisco Live Challenge' in the side menu.
- 3 Click on View Your Badges at the top.
- 4 Click the + at the bottom of the screen and scan the QR code:







Let's go cisco live! #CiscoLive