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Issue #04 April 29, 2020

This newsletter is brought to you by the DSI Engineering Team and focuses on technical topics. The goal is to share information about important updates, new partner products & solutions, and current industry news. We hope you enjoy the newsletter and feel free to send feedback anytime!

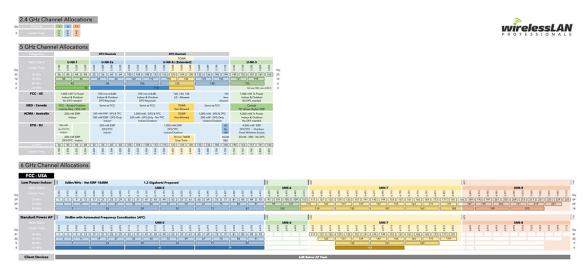
#### In This Issue:

FCC Opens 6GHz Band • Wireless Microphone Transition • Video Streaming • Additional Updates

#### FCC Opens 6GHz Band

The Federal Communications Commission (FCC) opened a 6GHz band to Wi-Fi and other unlicensed uses on April 23, 2020. This is a big deal because for the last 20 years we have been limited to 2.4GHz and 5GHz Wi-Fi frequency ranges. With this new unlicensed frequency range, we will see some great Wi-Fi enhancements coming soon. This 6GHz range will provide 59 free channels of 20MHz each (currently 2.4GHz range provides three free channels and 5GHz range provides 25 free channels). A nice visual representation of these channels is provided below, courtesy of wirelessLAN professionals. [Read More]

(Click image to enlarge)



## **Wireless Microphone Transition**

Changes concerning operation on 600 MHz frequencies: The amount of TV band spectrum available for wireless microphone has decreased as a result of the incentive auction, which was completed on April 13, 2017. Specifically, most (but not all) of the spectrum on TV channels 38-51 (614-698 MHz), has been repurposed for use by wireless services and will not continue to be available for wireless microphone use. Wireless microphones that operate in the 600 MHz service band (the 617-652 MHz and 663-698 MHz frequencies) will be required to cease operation sort by no later than July 13, 2020, and may be required to cease operation sooner if they could cause interference to new wireless licensees that commence operations on their licensed spectrum in the 600 MHz service band. [Read More]

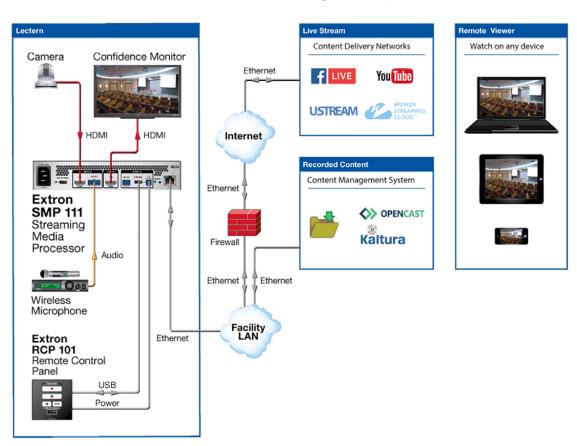
### **Video Streaming**

Remote video streaming is a necessary technology for many of our customers, especially during these times of isolation and social distancing. Extron offers the SMP 352 (pictured) - a high-performance recording and streaming processor for capturing & distributing AV sources and presentations as recorded media or live streaming. It can create independent recordings from two different sources and incorporates Extron's FlexOS, a flexible platform for automating system operation.



The SMP 352 accepts HDMI, component, composite, and optional 3G-SDI signals and applies two-window processing to selected sources. It can record and stream simultaneously and can stream at two different resolutions and bit rates concurrently using a range of transport protocols and session management options. With no recurring licensing fees and comprehensive control and configuration features, the SMP 352 is a cost-effective, integration-friendly solution for delivering presentations to a larger audience. [More Info]

#### **Basic Streaming Set-Up:**



# **Additional Updates**

- 10 Reasons to Switch from Lamp-Based to Laser Projectors [Read Article]
- Cisco Data Center Making it Easier to Ramp Up and Support New Remote Workers [Read Article]
- Cisco Issues Urgent Fixes for SD-WAN Router Flaws [Read Article]
- Cisco Maps IP-Led Path to 5G Profitability with New Lineup of Cloud Software and Hardware for Mobile Networks [Read Article]



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