UNITED STATES OF AMERICA

FEDERAL COMMUNICATIONS COMMISSION

TECHNOLOGICAL ADVISORY COUNCIL MEETING

THURSDAY, JUNE 9, 2022

The advisory committee met via video teleconference, at 10:00AM Eastern time, Dean Brenner, Chair, presiding.

COMMISSIONERS PRESENT: JESSICA ROSENWORCEL, Chairwoman

COMMITTEE MEMBERS PRESENT:

First Name	Last Name	Company Representing
Mark	Bayliss	Virginia ISP Association and Visual Link Internet
Nomi	Bergman	Advance Newhouse Communications
Dean	Brenner	SGE
Ranveer	Chandra	Microsoft
Bill	Check	NCTA
Andrew	Clegg	Wireless Innovation Forum
Alissa	Cooper	Cisco Systems
Marty	Cooper	Dyna LLC
Brian	Daly	AT&T
Adam	Drobot	OpenTechWorks
Jeff	Foerster	Intel Corporation
Peter	Gammel	GlobalFoundries
Monisha	Ghosh	The Wireless Institute, University of Norte Dame
Abhimanyu	Gosain	Northeastern University
Dick	Green	Liberty Global, Inc
Lisa	Guess	Ericsson North America
Dale	Hatfield	TCP, Univ of Colorado at Boulder
Mark	Hess	Comcast Corporation
Manish	Jindal	Charter Communications
Karri	Kuoppamaki	T-Mobile
Gregory	Lapin	American Radio Relay League
Jennifer	Manner	Hughes Network Systems
Dan	Mansergh	Apple

Brian	Markwalter	Consumer Technology Association
Lynn	Merrill	NTCA
Amit	Mukhopadhyah	Nokia
Jack	Nasielski	Qualcomm, Inc.
Michael	Nawrocki	ATIS
Roger	Nicols	KeySight
Henning	Schulzrinne	SGE
Marvin	Sirbu	SGE
Ted	Solomon	NRTC
Paul	Steinberg	Motorola
Michelle	Thompson	Open Research Institute
Doug	Brake	NTIA
Bejoy	Pankajakshan	Mavenir
John	Peha	Smart Cities Institute at CMU

COMMISSION STAFF PRESENT:

First Name	Last Name	Title
Ronald	Repasi	Chief, Office of Engineering and Technology
Michael	Ha	Designated Federal Officer
Martin	Doczkat	Deputy Designated Federal Officer

SUMMARY:

The advisory committee meeting began at 10:00AM Eastern time, with welcome remarks from the Technological Advisory Council (TAC) Chair, Dean Brenner, who emphasized the importance of the TAC's focus on 6G and emerging technologies, and presented the layout of the TAC's current working groups: 6G, Emerging Technologies, Artificial Intelligence/Machine Learning (AI/ML), and Advanced Spectrum Sharing.

The TAC Chair's remarks were followed by welcome remarks from FCC Chair Jessica Rosenworcel, expressing gratitude for members who volunteer their time to carry out this important work, and noting this group's work in 6G and how past accomplishments of the TAC have informed new FCC initiatives.

The FCC Chair's remarks were followed by welcome remarks from OET Chief Ronald Repasi, noting the progress that has transpired since this year's TAC instantiation's inaugural meeting which occurred on February 28, 2022, and reminding the committee of expectations for delivering actionable recommendations by the end of the calendar year.

The OET Chief's remarks were followed by welcoming remarks from the DFO Michael Ha and Deputy DFO Martin Doczkat, noting achievements and reminding members that the year is half way through, and introducing a new member from NTIA, Doug Brake.

The 6G Working Group (WG) Chairs, Brian Daly and Manu Gosain, summarized their progress so far, outlining the status of defining 6G and describing the timeline of standardization in the technical standards bodies (ITU, ETSI, 3GPP, etc.). The WG Chairs noted how Open Radio Access Networks (Open RAN) overlaps and intersects with the scope of 6G 3GPP standardization, looking at spectrum bands for service, use cases, and security. The WG Chairs outlined next steps, to include continuing to collect information on topics assigned in the WG charter, with a goal of formulating actionable recommendations based on subject matter expert presentations and WG member inputs by the end of the year.

The AI/ML WG Chairs, Lisa Guess and Adam Drobot, described how their activities have advanced their prior work completed in previous years since 2020, including elaborating pilot projects for the FCC to make the best use of AI/ML tools. The WG Chairs outlined their approach to look at the futurescape of networks and the activities of the other WGs to ascertain how AI/ML techniques fit and can be best leveraged to benefit areas of interest to the FCC. The Safe Uses of AI/ML sub-WG Chairs, Michelle Thompson and Paul Steinberg, summarized international regulatory activities in AI/ML, noted ongoing activities in the sub-WG to collect information and solicit subject matter expert presentations, and charted their plans for providing actionable recommendations by the end of the year.

The Advanced Spectrum Sharing WG Chairs, Monisha Ghosh and Andy Clegg, presented five topics: identify new mid-band spectrum bands for sharing, examination of primary incumbents in these identified spectrum bands, timeline of incumbent protections if coexistence is not an option, coexistence and licensing mechanisms, and identification and mechanisms for sharing with passive services in spectrum above 95 GHz. Working toward actionable recommendations, the WG summarized how specific bands might be contemplated for sharing, applying lessons learned from other services, and considered how receiver performance might be leveraged in future policy recommendations.

The Emerging Technologies WG Chairs, Brian Markwalter and Henning Schulzrinne, summarized the extensive scope of their WG charter to include Internet of Things, RF front ends, evolving ultrawide band (UWB) and sensor technologies, restoration of Internet access during shutdowns and service disruptions, quantum computing and blockchain, location services, small satellite technology development, cable and broadcasting standards, and optical/laser technologies. The WG Chairs listed the invited subject matter experts who have presented to the WG, and provided a status update that their WG is still in learning and organizing mode, working toward considering how actionable recommendations in these focus areas would be crafted by the end of the year.

The advisory committee meeting adjourned at 2:45PM Eastern time.

VIDEO LINK: https://www.fcc.gov/news-events/events/2022/06/technological-advisory-council-meeting-june-9-2022
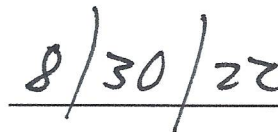
AGENDA:

10:00am – 10:30am	Introduction and Opening Remarks • Welcome Message (TAC Chair) • Opening Remarks by Chairwoman • Opening Remarks by OET Chief • DFO/Deputy DFO Remarks • Member Introduction/Roll Call
10:30am – 11:15am	6G WG Presentation
11:15am – 12:30am	AI/ML WG Presentation
12:30pm – 1:00pm	Lunch Break
1:00pm – 1:45pm	Advanced Spectrum Sharing WG Presentation
1:45pm – 2:30pm	Emerging Technologies WG Presentation
2:30pm – 2:45pm	Closing Remarks
2:45pm	Adjourned

SIGNED, COMMITTEE CHAIR

8/30/22

Dean Brenner   Date