**Communications Security, Reliability, and Interoperability Council VIII Working Groups**

**Working Group 1: 5G Signaling Protocols Security**

***Co-chairs:* Brian Daly*,\**** *AT&T* ***&* Travis Russell,\****Oracle*

*FCC Liaison:**Ahmed Lahjouji*

* 1. **Colin B. Andrews**,\* *Telecommunications Industry Association*
  2. **Michael Bergman**,\* *Consumer Technology Association*
  3. **Matt Carothers**, *Cox Communications*
  4. **Martin Goldberg**,\* *National Security Agency*
  5. **Angel V. Gomez**, *Verizon Communications*
  6. **Stephen Hayes**,\* *Ericsson*
  7. **Jithin Jagannath**, *ANDRO Computational Solutions*
  8. **Antwane Johnson**,\* *Federal Emergency Management Agency*
  9. **Xiaoyang Lee**, *Cybersecurity and Infrastructure Security Agency*
  10. **John Marinho**, *CTIA*
  11. **Martin McGrath**, *Nokia*
  12. **Maureen C. Mclaughlin**,\* *Satellite Industry Association*
  13. **Danny McPherson**,\* *Verisign, Inc*.
  14. **Derek Peterson**,\* *Wireless Broadband Alliance*
  15. **Mitch Rappard**, *Palo Alto Networks*
  16. **Mike Recchione**, *Alliance for Telecommunications Industry Solutions*
  17. **Greg Schumacher**, *T-Mobile*
  18. **Christopher Wendt**, *Somos, Inc*.

**Working Group 2: Promoting Security, Reliability, and Interoperability of Open Radio Access Network Equipment**

***Co-chairs:* Mike Barnes*,\**** *Mavenir***& George Woodward*,\**** *RWA*

*FCC Liaison:**Zenji Nakazawa*

1. **Rob Alderfer**,\* *Charter Communications*
2. **Robert Dew**, *Cybersecurity and Infrastructure Security Agency*
3. **Marla Dowell**,\* *National Institute of Standards and Technology*
4. **Andrew L. Drozd**,\* *ANDRO Computational Solutions*
5. **Russ Gyurek**, *Cisco Systems, Inc.*
6. **Javed Khan**,\* *Altiostar Networks*
7. **Michael Loushine**, *AT&T, Inc.*
8. **Jennifer Manner**,\* *Hughes Communications*
9. **Tim May,**\* *National Telecommunications and Information Administration*
10. **Martin McGrath**, *Nokia*
11. **Jack Nasielski**, *Qualcomm Technologies, Inc.*
12. **Scott Poretsky**, *Ericsson*
13. **Vishwanath Ramamurthi**, *Verizon Communications*
14. **Stefan Saroiu**, *Microsoft Corporation*
15. **Tom Sawanobori**,\* *CTIA*
16. **Tim Schram***,\* National Association of Regulatory Utility Commission*
17. **Nick Solano**, *Qcommunications, LLC*
18. **Eric Tamarkin**, *Samsung Electronics America*
19. **Jean Trakinat**, *T-Mobile*
20. **Claire Vishik**,\* *Intel*
21. **Henry Young**,\* *BSA | The Software Alliance*

**Working Group 3: Leveraging Virtualization Technology to Promote Secure, Reliable 5G Networks**

*Co-chairs:* **Micaela Giuhat*,\**** *Microsoft* **& John Roese*,\**** *Dell*

*FCC Liaison:* *Jeff Goldthorp*

1. **Marla Dowell**,\* *National Institute of Standards and Technology*
2. **Andrew L. Drozd**,\* *ANDRO Computational Solutions*
3. **Bob Everson**, *Cisco Systems, Inc*.
4. **Michael Gallagher**, *Verizon Communications*
5. **Martin Goldberg**,\* *National Security Agency*
6. **Javed Khan**,\* *Altiostar Networks*
7. **Douglas Knisely**, *Qualcomm Technologies, Inc*.
8. **Serge Manning**, *T-Mobile*
9. **Tim May,**\* *National Telecommunications and Information Administration*
10. **Martin McGrath**, *Nokia*
11. **William Mikucki**,\* *Comtech Telecommunications Corp.*
12. **Keith O’Brien**, *Palo Alto Networks*
13. **Jitendra Patel**, *AT&T, Inc.*
14. **Leo Popokh***, Alliance for Telecommunications Industry Solutions*
15. **Tom Sawanobori**,\* *CTIA*
16. **Imtiaz Shaikh***, Ericsson*
17. **Jane Shen**, *Mavenir*
18. **Paul Steinberg**,\* *Motorola Solutions*
19. **Frank Suraci**, *Cybersecurity and Infrastructure Security Agency*
20. **Peter Tomczak**,\* *FirstNet Authority*
21. **Claire Vishik**,\* *Intel*
22. **Damien Whaley**, *Cox Communications*
23. **George Woodward,\****Rural Wireless Association*

**Working Group 4: 911 Service Over Wi-Fi**

*Co-chairs:***Mary Boyd,\****Intrado***& Mark Reddish,\****APCO*

*FCC Liaison:* *Rasoul Safavian*

1. **Brandon Abley**,\* *National Emergency Number Association*
2. **Rob Alderfer**,\* *Charter Communications*
3. **Mark Annas**,\* *City of Riverside Fire Department, Office of Emergency Management*
4. **Michael Bergman**,\* *Consumer Technology Association*
5. **Wade Buckner**,\* *International Association of Fire Chiefs*
6. **Kirk Burroughs**, *Apple*
7. **Chinmay Dhodapkar**, *Google LLC*
8. **Stephen Edge**, *Qualcomm Technologies, Inc.*
9. **Katherine Elkins**,\* *National Highway Traffic Safety Administration*
10. **Harold Feld**,\* *Public Knowledge*
11. **Fred Frantz**, *ANDRO Computational Solutions*
12. **Mark Gibson**, *CommScope*
13. **James D. Goerke***, Texas 9-1-1 Alliance*
14. **Jeanna M. Green**, *T-Mobile*
15. **Kevin Green**, *Somos, Inc.*
16. **Mark Grubb**, *Cybersecurity and Infrastructure Security Agency*
17. **Mark Hess**,\* *Comcast Corporation*
18. **Craig Hodan,**\* *National Weather Service/NOAA*
19. **Everett Kaneshige**,\* *National Association of Telecommunications Officers and Advisors*
20. **Robert Kubik**, *Samsung Electronics America*
21. **William 'Andy' Leneweaver**, *Washington State Military Department*
22. **Jason Lish**,\* *Lumen Technologies, Inc.*
23. **Susan Miller**,\* *Alliance for Telecommunications Industry Solutions*
24. **Charles (“Peter”) Musgrove**, *AT&T, Inc.*
25. **Theresa Reese**, *Ericsson*
26. **Travis Reutter**,\* *ACA Connects- America's Communications Association*
27. **Charlie Sasser**, *National Association of State Technology Directors*
28. **Tim Schram**,\* *National Association of Regulatory Utility Commission*
29. **Sean Scott**,\* *SecuLore Solutions*
30. **Malcolm Smith**, *Cisco Systems, Inc.*
31. **Stuart Strickland**, *Hewlett Packard Enterprise*
32. **Jeff Torres**, *Verizon Communications*
33. **Steve Watkins**,\* *Cox Communications*
34. **Jeffrey Wittek**, *Motorola Solutions*

**Working Group 5: Managing Software & Cloud Services Supply Chain Security for Communications Infrastructure**

*Co-chairs:***Padma Sudarsan,\****VMWare* **& Todd Gibson,** *T-Mobile*

*FCC Liaison:* *Saswat Misra*

1. **Rob Alderfer**,\* *Charter Communications*
2. **Tom Anderson**, *Alliance for Telecommunications Industry Solutions*
3. **Jan H.L. (John-Luc) Bakker**, *BlackBerry Corporation*
4. **Donna Bethea-Murphy**,\* *Inmarsat*
5. **Shirley Bloomfield**,\* *NTCA-The Rural Broadband Association*
6. **Matt Carothers**, *Cox Communications*
7. **Josh Cech**, *S&T Telephone Cooperative Association*
8. **Benjamin Goldsmith**, *U.S. Department of Justice*
9. **Dana Golub**,\* *Public Broadcasting Service*
10. **Anu Jagannath**, *ANDRO Computational Solutions*
11. **Mohammad Khaled**, *Ericsson*
12. **Jason Lish**,\* *Lumen Technologies, Inc.*
13. **Tim May,**\* *National Telecommunications and Information Administration*
14. **Martin McGrath**, *Nokia*
15. **Maureen C. Mclaughlin**,\* *Satellite Industry Association*
16. **George Popovich**, *Motorola Solutions*
17. **Travis Reutter**,\* *ACA Connects- America's Communications Association*
18. **Nasrin Rezai**,\* *Verizon Communications*
19. **John Roznovsky**, *Mavenir*
20. **Sean Scott**,\* *SecuLore Solutions*
21. **Jim Stringer**, *AT&T, Inc.*
22. **Richard “Dick” Tenney**, *Cybersecurity and Infrastructure Security Agency*
23. **Claire Vishik**,\* *Intel*
24. **Kelly Williams**, *National Association for Broadcasters*
25. **Timothy Wilson-Johnston**, *Cisco Systems, Inc*.
26. **Henry Young**,\* *BSA | The Software Alliance*

**Working Group 6: Leveraging Mobile Device Applications and Firmware to Enhance Wireless Emergency Alerts**

*Co-chairs:* **Farrokh Khatibi*,\**** *Qualcomm* **& Francisco Sanchez*,\**** *Small Business Administration*

*FCC Liaison: James Wiley*

1. **Mark Annas**,\* *City of Riverside Fire Department, Office of Emergency Management*
2. **Rebecca Baudendistel**, *NYC Emergency Management*
3. **Terri Brooks**, *T-Mobile*
4. **Wade Buckner**,\* *International Association of Fire Chiefs*
5. **Kirk Burroughs**, *Apple*
6. **Brian K. Daly**,\* *AT&T, Inc.*
7. **Harold Feld**,\* *Public Knowledge*
8. **Craig Fugate**,\* *America’s Public Television Stations*
9. **Michael Gerber**, *National Weather Service/NOAA*
10. **Dana Golub**,\* *Public Broadcasting Service*
11. **Stephen Guiwits**, *US Geological Survey*
12. **Mark Hess**,\* *Comcast Corporation*
13. **Antwane Johnson**,\* *Federal Emergency Management Agency*
14. **Robert Kubik**, *Samsung Electronics America*
15. **Jennifer Lazo**, *City of Los Angeles Emergency Management Department*
16. **John Marinho**, *CTIA*
17. **Susan Miller**,\* *Alliance for Telecommunications Industry Solutions*
18. **Krisztina Pusok**,\* *American Consumer Institute*
19. **Matthew Straeb**, *Global Security Systems, LLC*
20. **Peter Tomczak**,\* *FirstNet Authority*
21. **Dara Ung**, *Comtech Telecommunications Corp.*
22. **Larry Walke**, *National Association for Broadcasters*
23. **Steve Watkins**,\* *Cox Communications*
24. **Chia-Kaung (Jack) Yu**, *Google LLC*

\*Also a member of CSRIC VIII