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2022 NACo

LEGISLATIVE CONFERENCE

FEBRUARY 12-16 | WASHINGTON HILTON | WASHINGTON, D.C.





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*Welcome to the
Telecommunications & Technology
Policy Steering Committee Business
Meeting*



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Housekeeping

- Please stay masked unless actively eating or drinking
- Use standing microphones for questions and comments
- Virtual attendees may “raise hand” to be recognized or ask questions and make comments in the chat
- Slides and all materials will be emailed to the Committee after the conference!



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Run of Show

1:30pm: Opening remarks and introductions, Chair Clark

1:45pm-2:15pm: Next-Gen 911 with State Senator Kagan

2:15pm-2:45pm: Cyber Priorities w/ Sen. Peters and Rita Reynolds

2:45pm-3:15pm: Fireside chat with Kevin Gallagher, DOC

3:15pm-3:45pm: FCC presentation (recorded) & Federal Policy Update

3:45pm-4:15pm: T&T business meeting (committee members only)



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Opening Remarks and Introductions

Chair Tarryl Clark



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Next-Generation 911 Presentation, State Senator Cheryl Kagan (D-Md.)





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Local Cybersecurity Priorities, Sen. Gary Peters and Rita Reynolds





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Remarks from Senator Gary Peters

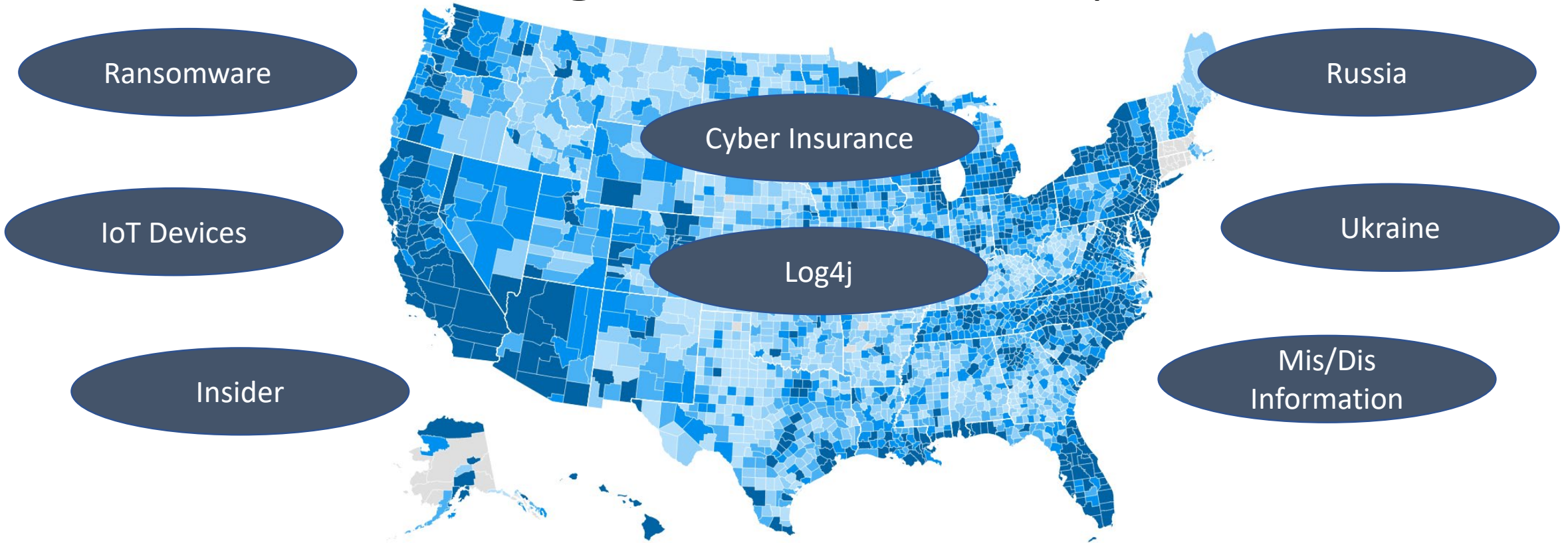
Click to Watch Remarks

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Evolving Threat Landscape



Source: NACo Analysis of U.S. Census Bureau - Census of Individual Governments: Finance

613 \$55.0K 612 \$8.7M 612 \$18.7M 612 \$38.4M 612 \$104.3M 612 \$112.8B
Numbers within each color box represent the distribution of counties.



External Threats – Hacker As a Service

Along with the encrypting system, you get access to the fastest stealer all over the world - StealBit automatically downloading all files of the attacked company to our updated blog.

<i>Comparative table of the information download speed of the attacked company</i>							
Testing was made on the computer with a speed of Internet of 1 gigabit per second							
Downloading method	Speed in megabytes per second	Compression in real time	Hidden mode	drag'n'drop	Time spent for downloading of 10 GB	Time spent for downloading of 100 GB	Time spent for downloading of 10 TB
Stealer - StealBIT	83,46 MB/s	Yes	Yes	Yes	1M 59S	19M 58S	1D 9H 16M 57S
Rclone pcloud.com free	4,82 MB/s	No	No	No	34M 34S	5H 45M 46S	24D 18M 8S
Rclone pcloud.com premium	4,38 MB/s	No	No	No	38M 3S	6H 20M 31S	26D 10H 11M 45S
Rclone mail.ru free	3,56 MB/s	No	No	No	46M 48S	7H 48M 9S	32D 12H 16M 28S
Rclone mega.nz free	2,01 MB/s	No	No	No	1H 22M 55S	13H 48M 11S	57D 13H 58M 44s
Rclone mega.nz PRO	1,01 MB/s	No	No	No	2H 45M	1D 03H 30M 9S	114D 14H 16M 30S
Rclone yandex.ru free	0,52 MB/s	No	No	No	5H 20M 30S	2D 05H 25M 7S	222D 13H 52M 49S



External Threats – Hacker As a Service

LockBit 2.0 is the fastest encryption software all over the world. In order to make it clear, we made a comparative table with several similar programs indicating the encryption speed at same conditions, making no secret of their names.

<i>Encryption speed comparative table for some ransomware - 02.08.2021</i>							
PC for testing: Windows Server 2016 x64, 8 core Xeon E5-2680@2.40GHz \ 16 GB RAM \ SSD							
Name of the ransomware	Date of a sample	Speed in megabytes per second	Time spent for encryption of 100 GB	Time spent for encryption of 10 TB	Self spread	Size sample in KB	The number of the encrypted files (All file in a system 257472)
LOCKBIT 2.0	5 Jun, 2021	373 MB/s	4M 28S	7H 26M 40S	Yes	855 KB	109964
LOCKBIT	14 Feb, 2021	266 MB/s	6M 16S	10H 26M 40S	Yes	146 KB	110029
Cuba	8 Mar, 2020	185 MB/s	9M	15H	No	1130 KB	110468
BlackMatter	2 Aug, 2021	185 MB/s	9M	15H	No	67 KB	111018
Babuk	20 Apr, 2021	166 MB/s	10M	16H 40M	Yes	79 KB	109969
Sodinokibi	4 Jul, 2019	151 MB/s	11M	18H 20M	No	253 KB	95490
Ragnar	11 Feb, 2020	151 MB/s	11M	18H 20M	No	40 KB	110651
NetWalker	19 Oct, 2020	151 MB/s	11M	18H 20M	No	902 KB	109892
MAKOP	27 Oct, 2020	138 MB/s	12M	20H	No	115 KB	111002
RansomEXX	14 Dec, 2020	138 MB/s	12M	20H	No	156 KB	109700
Pysa	8 Apr, 2021	128 MB/s	13M	21H 40M	No	500 KB	108430
Avaddon	9 Jun, 2020	119 MB/s	14M	23H 20M	No	1054 KB	109952



The Current State of Cyber – Insider Threats

An internal employee maliciously or inadvertently causes an issue to occur.

- NEW: USB mailings starting in August 2021 and continuing through January 2022.
- When plugged in, the device may appear to be a keyboard on the system and execute code in memory, including a PowerShell payload.





Local Government Cyber Priorities

NACo Cyber Priorities and Best Practices Publication

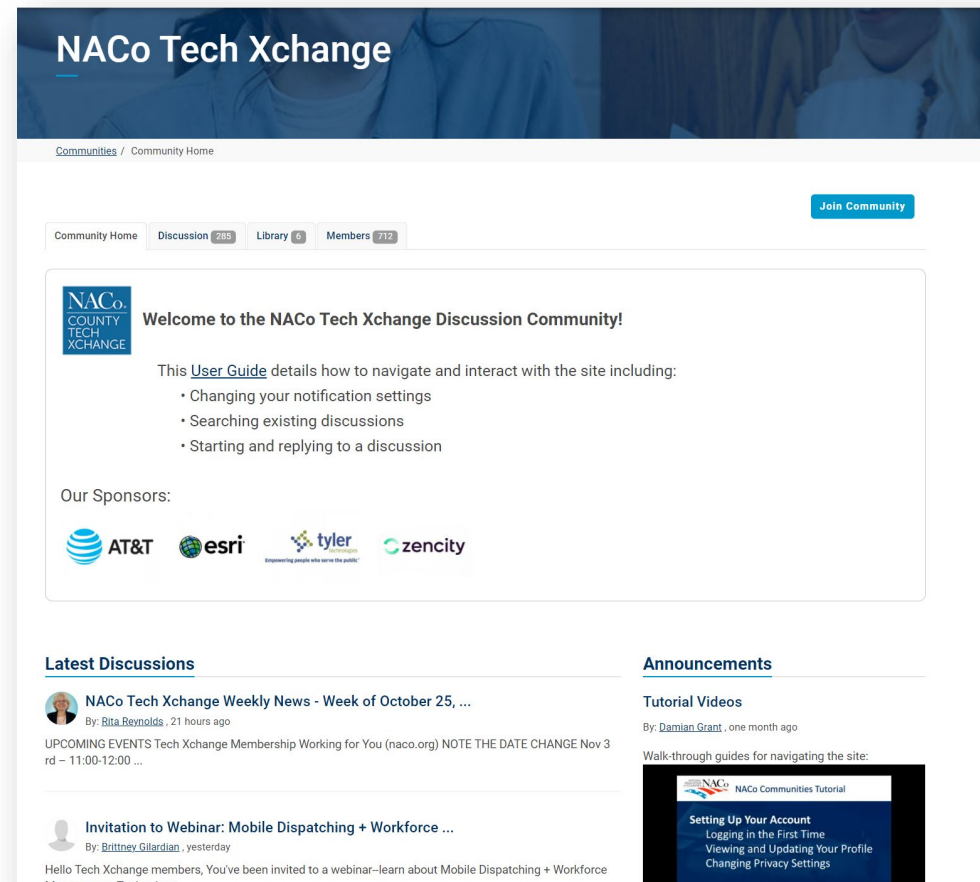
1. **MFA – Multi Factor Authentication**
2. DMARC
3. **DotGov**
4. Assessments
5. **Join MS-ISAC**
6. Monitoring Tools
7. Contract Reviews-3rd Party Providers
8. End User Education
9. End User Protection
10. Support (staffing, consultants)
11. Policies





NACo Programs

- [NACo Tech Xchange](#)
 - Discussion Group
 - Portal
 - Focus Groups – toolkits
 - CIO Forums
- [Open to County IT Leaders and other IT employees \(GIS, security\)](#)

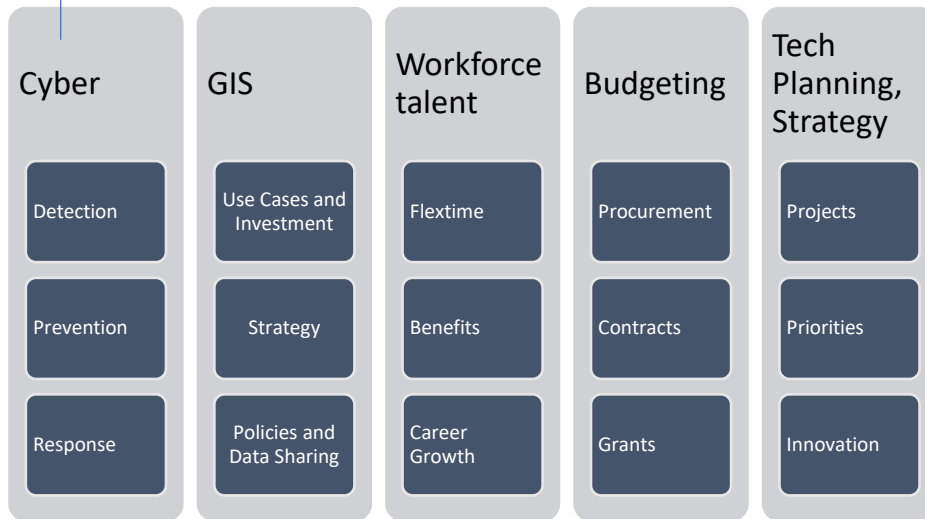




NACo Programs – Cyber Guide for County Leadership

Five Areas

Top Ten Benefits Cyber



1. Increased security
2. Protection of residents
3. Lower Cyber Insurance Coverage
4. Protection of end users
5. Protection of data assets
6. Protection of the county brand
7. Protection of the website
8. Protection of the network
9. Protection of Election Equipment
10. Protection of Election Processes



Cyber Guide for County Leadership Top Ten Questions

1. Does the County have a Board adopted Information Security Program in place to govern cyber risk management?
2. Does the county have Multi-Factor Authentication (MFA) in place?
3. Does our county have a security incident plan in place and is that plan part of the overall continuity of government plan?
4. What cyber-related issues have we experienced in the past year or key high-level findings that have been uncovered through an assessment, and what is our plan for addressing them?
5. Are there security initiatives which you believe are important to take on in the next several years? And does that involve new tools and funding? How can elected leadership support you in those?
6. Does our county have an employee security awareness training program in place? Tell me more.
7. Are our backups safe from a security threat and have we conducted exercises to test reinstalling data from backup?
8. How does our county ensure the cyber safety of county employees, contractors and others that connect to the network, especially in a remote environment?
9. Is our county using the cloud for hosting data and applications and how is that protected?
10. Why do we need cyber insurance and what are the current challenges?

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Tend to the Basics

Change Your
Password

MFA

End User
Training

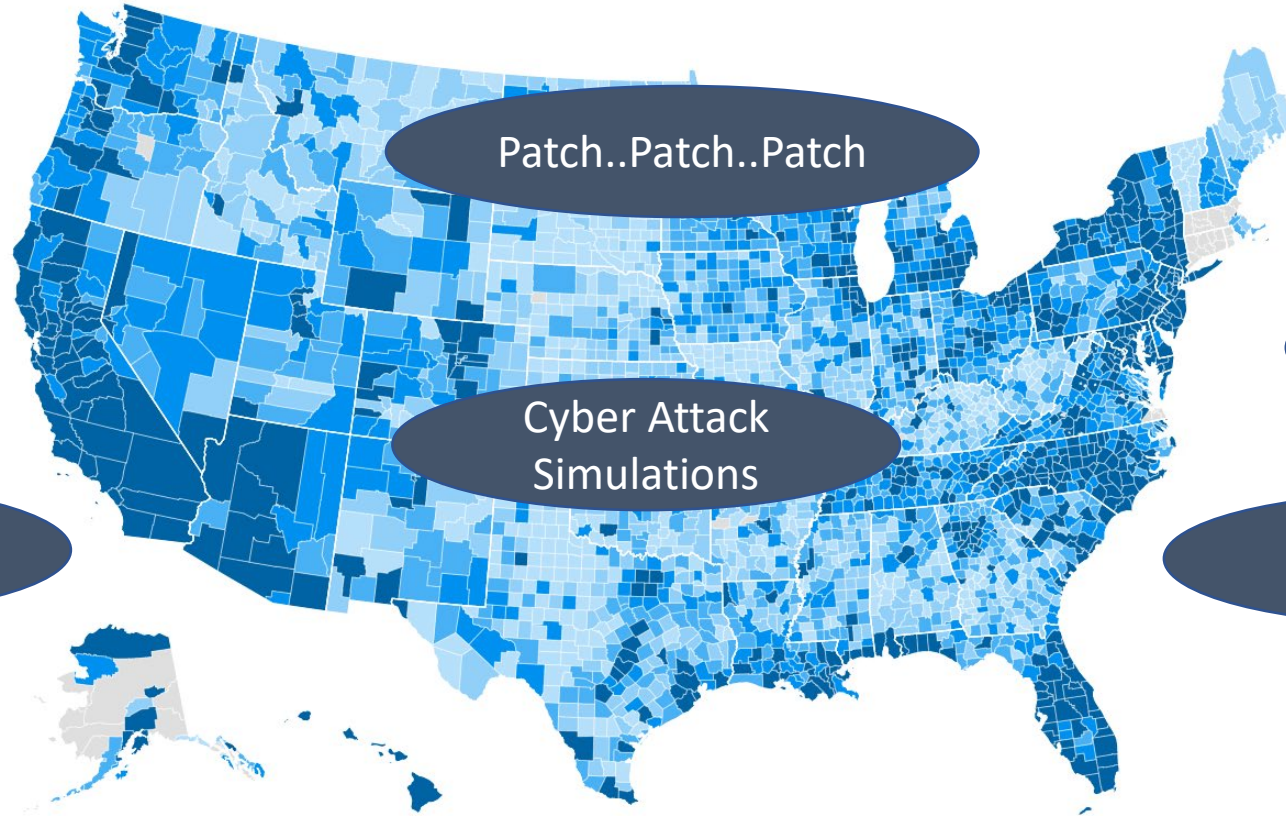
Patch..Patch..Patch

Cyber Attack
Simulations

CISA

MS-ISAC

Security
Incident Plan



Source: NACo Analysis of U.S. Census Bureau - Census of Individual Governments: Finance

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NACo 2022 Technology Priorities

**NACo 2022
TECHNOLOGY PRIORITIES**
Developed by the NACo Tech Xchange County Membership

In addition to the specific links below, you can find more information at [County Tech Xchange \(naco.org\)](https://naco.org)

- CYBER SECURITY SERVICES:**
Aggregate agreements, partnerships, best practices, cyber simulations, cyber insurance, national county reports (includes [NACo Cyberattack Simulation](#))
- IT LEADERSHIP TALENT ACQUISITION AND RETENTION:**
Leadership, culture, engagement, and benefit retention tools
- NACo TECH XCHANGE:**
Membership growth, portal resources, partner access - [2022-Tech-Xchange-subscription-form.pdf \(naco.org\)](#)
- DATA GOVERNANCE:**
Education, Legislative input for privacy and records digitization, resources, data asset inventory templates, data toolkit - [NACo Tech Xchange - Data Governance Toolkit Series: Challenges and Opportunities During COVID-19](#)
- BROADBAND:**
Education, wide access, affordability and adoption - [Broadband \(naco.org\)](#)
- CLOUD ADOPTION:**
Best practices and guidelines
- RURAL AND SMALLER COUNTY TECHNOLOGY:**
Support, resources, security solutions (including the development of an IT handbook)
- AUTONOMOUS INNOVATION FOR LOCAL GOVERNMENT:**
Education, uses cases, crossing county boundaries

For more information, contact:
Rita Reynolds, NACo CIO, rreynolds@naco.org
Brittney Galardian, Technology Programs Associate, bgalardian@naco.org

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NACo Programs

- Cyber Attack [Simulation](#) Series
 - Nov 29 – Dec 1
 - County staff encouraged to participate (IT, CAO, County Exec, HR, etc.)
- 2022 Cyber Simulations
 - [March 14 - 18, 2022 | Ransomware on 911 Systems and Backup Systems](#)
 - June 13 - 17, 2022 | Counterfeit Websites/Website Defacement
 - September 19 - 23, 2022 | Waste Management, Water Treatment and Recycling Centers
 - November 14 - 18, 2022 | Procurement Without IT Support



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Thank You

Questions?

Rita Reynolds, CIO, NACo

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Fireside Chat with Kevin Gallagher, Department of Commerce





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What's the latest from the FCC?





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What's the latest from the FCC?

Click to Watch FCC Presentation



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Federal Policy Update





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Telecommunications & Technology Business Meeting

Interim Policy Resolution Consideration



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Thank you!

*See you at Happy Hour: 6:30pm @
the LINE Hotel, 1770 Euclid St. NW*