5G Americas: 3GPP - MRP Report

September 27-28, 2022

Chris Pearson
President, 5G Americas

Who We Are

Technical Facilitation & Coordination

Regulatory Policy

Educational Outreach

Airspan antel AT&T ciena cisco CROWN CASTLE ERICSSON intel LIBERTY LATIN AMERICA

MAVENIR NOKIA Qualcomm SAMSUNG Shaw Telefónica T-Mobile vmware WOM

5G Americas facilitates and advocates for the advancement and transformation of LTE, 5G and beyond throughout the Americas.

5GAmericas.Org

5G americas

5G CONNECTIONS INCREASED RAPIDLY 2021 - 2022

Global Growth in 5G Connections

Q2 2021 – Q2 2022

North America Growth in 5G Connections

Q2 2021 – Q2 2022

Source: OMDIA 5G americas

USA 5G COVERAGE AND ADOPTION

Over 315 Million people are covered by 5G in the US with three national carriers with extensive 5G coverage

5G americas

Connections Forecast 2022-2027
North America & Latin America

Source: OMDIA

KEY REGULATORY CONSIDERATIONS NORTH AMERICA

United States

- Interagency Spectrum Coordination (FCC & NTIA)
- Recent Spectrum Auctions: 2.5 GHz & 3.45 GHZ
- Potential Spectrum 3.1-3.45 GHz (Spectrum Innovation Act)
- BEAD Program
- Chips & Science Legislation

Canada

- 2023 Spectrum Auction: 3.8 GHz
- Possible market Consolidation among MNOs

USA INITIATIVE TO INCREASE BROADBAND: BROADBAND , EQUITY, ACCESS AND DEPLOYMENT

Part of $550B new appropriations for Infrastructure Investment and Jobs Act

EXPAND HIGH-SPEED INTERNET ACCESS BY FUNDING INFRASTRUCTURE DEPLOYMENT

$65 BILLION BEADS PROGRAM

ONE TECHNOLOGY DOES NOT FIT ALL DEPLOYMENTS

States will propose projects that meet these priorities:

1. **Unserved areas**
   Below 25/3 Mbps
2. **Underserved areas**
   Below 100/20 Mbps
3. **Community anchor institutions**
   1/1 Gbps

USA CHIPS & SCIENCE ACT

$1.5 BILLION FOR PROMOTING AND DEPLOYING WIRELESS TECHNOLOGIES

The CHIPS and Science Act provides $52.7 billion for American semiconductor research, development, manufacturing, and workforce development

- $1.5 billion for promoting and deploying wireless technologies that use open and interoperable radio access networks and their supply chains
- $39 billion in manufacturing incentives
- $500 million for international information communications technology security and semiconductor supply chain activities

https://www.whitehouse.gov/briefing-room/statements-releases/2022/08/09/fact-sheet-chips-and-science-act

https://www.whitehouse.gov

Latin America Opportunities and Challenges To Progress 5G

Clear and transparent rules and regulations for mobile operators

- Modernization of regulatory frameworks
- Streamlined regulatory processes for deployment of networks

Lower taxation throughout the wireless ecosystem including networking components

- Lower tax structure overall to help investment and access
- Affordable Mass market 5G devices: Device Accessibility

Spectrum Harmonization and Management

- Availability of more spectrum:
  - ✓ Low
  - ✓ Medium
  - ✓ High

LATIN AMERICA IS MAKING PROGRESS ON SPECTRUM FOR 5G

Below 6 GHz Radio Spectrum assigned in Latin America

*Guatemala's estimate is under review.

TECHNICAL WORK GROUPS

WHITE PAPER PUBLICATIONS

White Papers:
WWW.5GAMERICAS.ORG

June 1, 2021
State of the Radio Spectrum Bands in Latin America: 2,300 MHz, 2,500 MHz & 3,500 MHz

July 14, 2021
Mid-Band Spectrum & Coexistence with Radio Altimeters

Aug 12, 2021
Analysis of ITU Spectrum Recommendations in Latin America

Aug 19, 2021
Private and Enterprise Networks

Sep 15, 2021
Vehicular Connectivity: C-V2X & 5G

Oct 6, 2021
5G Vertical Use Cases

Nov 2, 2021
5G Edge Automation and Intelligence

Nov 10, 2021
Fixed Wireless Access with 5G Networks

Nov 19, 2021
Mobile Communications Towards 2030

Dec 3, 2021
Security for 5G

Jan 14, 2022
Cellular Communications in a 5G Era

Jan 26, 2022
5G and Non-Terrestrial Networks

July 22, 2022
Commercializing 5G Network Slicing

Aug 11, 2022
Understanding 5G & Time Critical Services

Sept 13, 2022
Evolving 5G Security for the Cloud

More white papers coming this fall

Fall, 2022

MOST RECENT 5G AMERICAS WHITE PAPERS

July 22, 2022

Commercializing 5G Network Slicing

Aug 11, 2022

Understanding 5G & Time Critical Services

Sept 13, 2022

Evolving 5G Security for the Cloud

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Thank you

Chris Pearson
President, 5G Americas
www.5gamericas.org