



The standard for
Home Entertainment Networking™

MoCA 2.0 Ratified!

- Technology works. Does not break.
- Deployment by Verizon
- DIRECTV and Cox announced availability of multiroom DVR. Comcast, TWC and others in advanced trials
- Liberty Global announces new gateway with Wi-Fi and MoCA
- Operators looking for roadmap for next several years
- What's next?

Introducing MoCA 2.0

- Two new performance modes with industry leading MAC and PHY rates. “Turbo” mode for each.
- Two new low power modes – sleep and standby
- Expanded operating frequency
- Packet error rate (PER) improvements
- Backward interoperability with 1.0 and 1.1 assured.
- *MoCA 1.0/1.1 meet operator requirements today. MoCA 2.0 serves operator requirements of tomorrow.*

- **Baseline Mode**
 - 400+ Mbps MAC throughput
 - 700 Mbps PHY Rate
 - Single 100 MHz Channel
- **Enhanced Mode**
 - 800+ Mbps MAC throughput
 - 1.4 Gbps PHY Rate
 - Two bonded 100 MHz Channels (“Channel Bonding”)
- “Turbo” mode for a point-to-point configuration that allows
 - 500+ Mbps MAC throughput between two connected devices when operating in Baseline mode
 - 1+ Gbps MAC throughput when operating in Enhanced mode.

- Two new power saving modes
 - Standby (reduced power)
 - With “Wake on MoCA”(™) for quick response
 - “Wake on MoCA™” produces similar results to “Wake on LAN (WoL)” but specialized for MoCA as a coordinated shared network
 - Sleep (minimum power)
 - Reduced power for one node
- Additional network-level power saving mode
 - Network standby mode is defined as all devices in the network are in standby, including the NC, and can wake up synchronously and reform the network
 - Reduced power for all nodes

Expanded Operating Frequency Range

- 500 MHz through 1650 MHz (center frequencies)
- This spectrum expansion allows multiple MoCA networks simultaneously coexistent with provider services

Reliability Improvements

- Improved packet error rate (PER)
 - Programmable on a per flow basis
 - One packet error in 100 million for improved video delivery
- 3.5 ms latency (on average) over all received packets.
- Improved robustness by re-transmission in special cases

- No nonsense backward interoperability!
- MoCA 2.0 nodes interoperate with 1.0 or 1.1 nodes on the same network.
- MoCA 2.0 capable nodes communicate in MoCA 2.0 mode when talking to MoCA 2.0 devices even when 1.x devices are present in the network.

- Highest and truest performance in industry
- Energy efficiency improvements
- Expanded operating frequency
- Backward interoperability
- The only home entertainment networking standard that works in all three pay TV segments—cable, satellite and IPTV.
- *MoCA 1.0/1.1 meet operator requirements today.
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