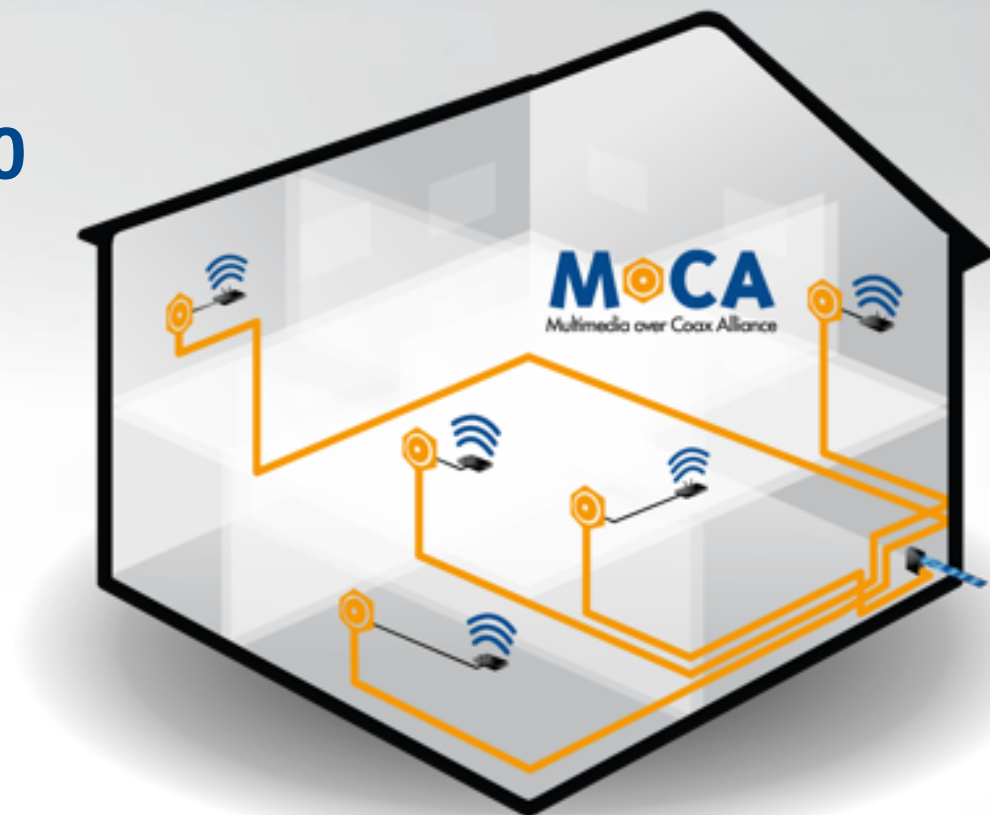


Alliance Overview 2020



**MoCA[®] Makes
Wi-Fi[™] Better**

Background

- MoCA technology is the fastest and most reliable home networking technology standard available.
 - MoCA 2.0: actual data rates of 1 Gbps.
 - MoCA 2.5: actual rates of 2.5 Gbps.
- Makes Wi-Fi® better.
- Lowers total cost of network ownership.
- MoCA technology has been adopted by pay TV and network operators worldwide.
- MoCA Access 2.5 now available.
- 237 certified products

MoCA 2.0

- **One Gbps actual data rate.**
- One packet error (PER) in 100 million with 3.6 ms latency.
- Sleep and standby power modes.
- Operating frequency range from 500-1650 MHz.
- Backward interoperable with MoCA 1.1.

MoCA Home 2.5

- **2.5 Gbps actual data rate.**
- Additional features:
 - MoCA protected setup (MPS):
 - Management proxy
 - Enhanced privacy
 - Network-wide beacon power
 - Bridge detection
- Backward interoperable with MoCA 2.0/1.1.

MoCA Access™ 2.5

- Fiber extension technology using in-building coaxial cabling.
- Based on MoCA 2.5 specification.
- Throughput is 2.5 Gbps downstream and 2 Gbps upstream.
- Latency is less than 5ms.
- Point-to-multipoint serving up to 63 modems (clients).
- Works over existing in-building coaxial wiring.
- Operating frequency range of 400MHz - 1675MHz.
- Co-exists with TV, DOCSIS and cellular (4G/5G) technologies.
- Supports standard traffic shaping and QoS up to eight (8) traffic classes.
- Strong security support.
- Three transmission power modes with 45dB,55dB or 65dB link budgets and power saving modes.















MoCASec™

- Provides point-to-point link privacy that allows for seamless integration of MoCA technology into home networks supporting the Wi-Fi Alliance's EasyMesh™.
- MoCASec is available via firmware upgrade for MoCA Home™ 2.0/2.5 and MoCA Access 2.5 devices, and is part of the MoCA Home™ 3.0 standard.






MoCA Standards

MoCA Home Networking (Mesh)

	MoCA 2.0	MoCA 2.0 Bonded	MoCA 2.5	MoCA 3.0
Year Introduced	2010	2016	2016	2018
Actual MAC Throughput	500 Mbps	1 Gbps	2.5 Gbps	10 Gbps
One-Way Latency in Milliseconds	3.6	3.6	<5	2.5
Channel Width in MHz	100	100	100	400
Number of Channels Bonded		2	3~5	Up to 4
Modulation	1024 QAM	1024 QAM	1024 QAM	8192 QAM
Field Test				
Power Save (Standby and Sleep)				
Network-wide Privacy				
MoCASec™ Peer to Peer Security*				
Fully Backward Interoperable				

*MoCASec™ is available via firmware update for MoCA 2.0/2.5.
MoCASec™ is embedded in MoCA 3.0.

MoCA Access

MoCA 2.5	MoCA 3.0 (in development)
2016	2019
2.5 Gbps	10 Gbps
<5	
100	
3~5	
1024 QAM	
	
	
	

Technology Evolution

