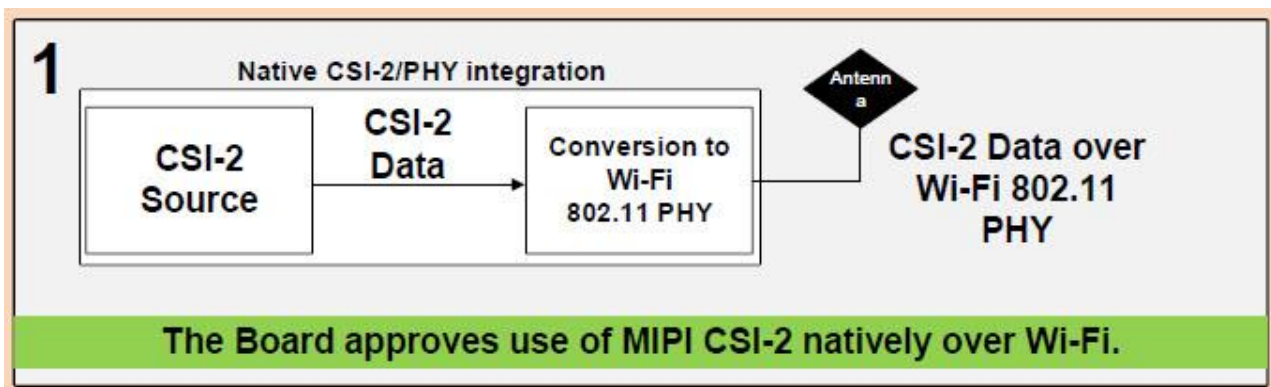




**MIPI Board of Directors response to requests for use of MIPI CSI-2 over
Wi-Fi PHY and Ethernet PHY by certain MIPI Members
(MIPI Board Conditionally Approved - 15 December 2021 ; Final Approval – 10 August 2022)**

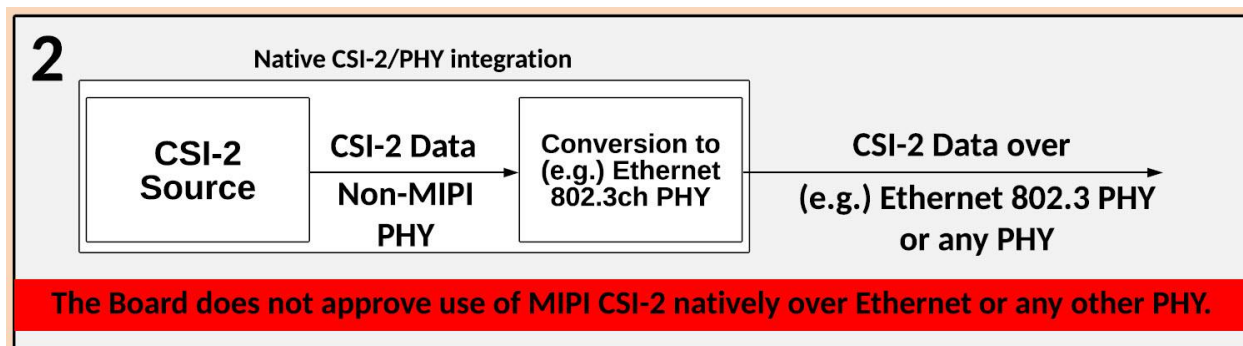
MIPI Alliance has a longstanding requirement that MIPI protocol specifications (e.g., CSI-2 or DSI/DSI-2) be used only in connection with MIPI PHYs. The MIPI Board of Directors received requests from certain MIPI members to enable use of the MIPI CSI-2 protocol specification directly or natively (i.e., not in combination with a MIPI PHY) over (1) Wi-Fi (IEEE 802.11 PHY) and (2) Ethernet (IEEE 802.3 PHY), utilizing IEEE 1722. This communication responds to those requests. It additionally offers a clarification (3) about use of MIPI protocol data ‘downstream’ from a MIPI-compliant device.

1. The Board approves use of MIPI CSI-2 natively over Wi-Fi. The Board supports the idea of enabling use of CSI-2 directly or natively over Wi-Fi PHY (i.e., without use of MIPI A-PHY, C-PHY, or D-PHY). The Board understands and approves that CWG optionally utilize IEEE 1722 to enable this Wi-Fi use case.



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2. The Board is NOT willing to approve use of MIPI CSI-2 natively over Ethernet 802.3ch PHY, any other Ethernet PHY, or any other non-MIPI PHY. The Board does not support the idea of enabling CSI-2 directly or natively over Ethernet PHY or any other non-MIPI PHY (uses of MIPI protocols downstream from a Compliant Portion are described below). The Board believes that any benefits of this approach are outweighed by the costs of reduced technical quality and increased ecosystem fragmentation. Accordingly, the Board will not be authorizing use of the MIPI CSI-2 protocol specification directly or natively (i.e., not in combination with a MIPI PHY) over any Ethernet PHY.



3. Clarification about uses by MIPI members of MIPI protocol data ‘downstream’ from a MIPI Compliant Portion.

A device that properly implements a MIPI protocol over a MIPI-authorized PHY would typically embody a “Compliant Portion,” as the term is defined in the MIPI Membership Agreement. The Board recognizes that Compliant Portions often feed data into bridge chips or other technology that ultimately repackage and reuse this data. Subject to the caveats that follow, the Board has no objection to data being extracted from a Compliant Portion and then further processed and transmitted as decided by the implementing MIPI member—which could include transmission over a non-MIPI PHY.

In connection with any such uses, MIPI members must abide by the applicable copyright, trademark and confidentiality limitations imposed by the MIPI Membership Agreement. Among other things, this means that disclosing and using a MIPI specification for the purpose of creating a third-party specification is not authorized. Third party standards development organizations, like all non-members, have no license to use any MIPI intellectual property, unless expressly authorized by the MIPI Board of Directors. Additionally, members are reminded that the Membership Agreement’s patent license commitments apply only to Compliant Portions. MIPI Alliance also insists that its trademarked protocol names (such as CSI-2 and DSI) must not be used in connection with any implementation that is not in fact compliant with the relevant applicable specification. So, for example, data carried over a non-MIPI PHY should never be called “CSI-2” and devices that use CSI-2-derived data should not be called “CSI-2 compliant” or “conformant” or any similar term, as this would cause market confusion. CSI-2 requires a MIPI-authorized PHY for compliant implementation.

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The MIPI Board recognizes that data extracted from a MIPI-compliant device (i.e., a device that uses both CSI-2 and a MIPI-authorized PHY) may include unmodified CSI-2 packets. MIPI has no objection to this technical implementation. As set forth above, MIPI's concern is that its trademarked term "CSI-2" should not be used to identify technology that is not fully compliant with applicable MIPI specifications, including the requirement that MIPI protocols be implemented over MIPI-authorized PHYs. Accordingly, MIPI considers all CSI-2-related data extracted from a MIPI Compliant Portion and used by a device that is not a Compliant Portion to be "CSI-2-derived" data, and not "CSI-2," even when the device uses unmodified CSI-2 packets.

