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Miracast Image Quality Degradation / Low Throughput Issues

Revision History

Date	Ver.	Description	Author
2025/11/28	1.0	First writing	Derek

Q1. Why does the Miracast projection quality become poor?
During our testing, we found that the **Wi-Fi behavior of the source laptop can affect the Miracast P2P throughput**.
If the laptop is connected to a **5 GHz Wi-Fi router**, but Miracast P2P is operating on **2.4 GHz**, the throughput may decrease, which can result in degraded projection quality.

Q2. Is this issue caused by the RX device?
No.
This behavior is caused by the **laptop's Wi-Fi connection and band selection**, not the RX device.
When the throughput drops, the Miracast projection quality may also be affected.

Q3. Is there a way to improve the throughput or projection quality?
Yes. You can improve the result by doing the following:
→ Before starting Miracast, connect the laptop to the same Wi-Fi router that the RX is connected to.
This ensures both devices operate within the same network environment and reduces issues caused by mismatched Wi-Fi bands.

Q4. Does this method completely eliminate the problem?
This approach can effectively improve throughput and enhance Miracast projection quality.
However, the actual result may still vary depending on environmental factors, router settings, and potential wireless interference.