Posted 2 months ago   Last Activity 15 days ago

Ubiquiti Dream Router (UDR) - no 160MHz Wi-Fi connection - Firmware 2.4.9

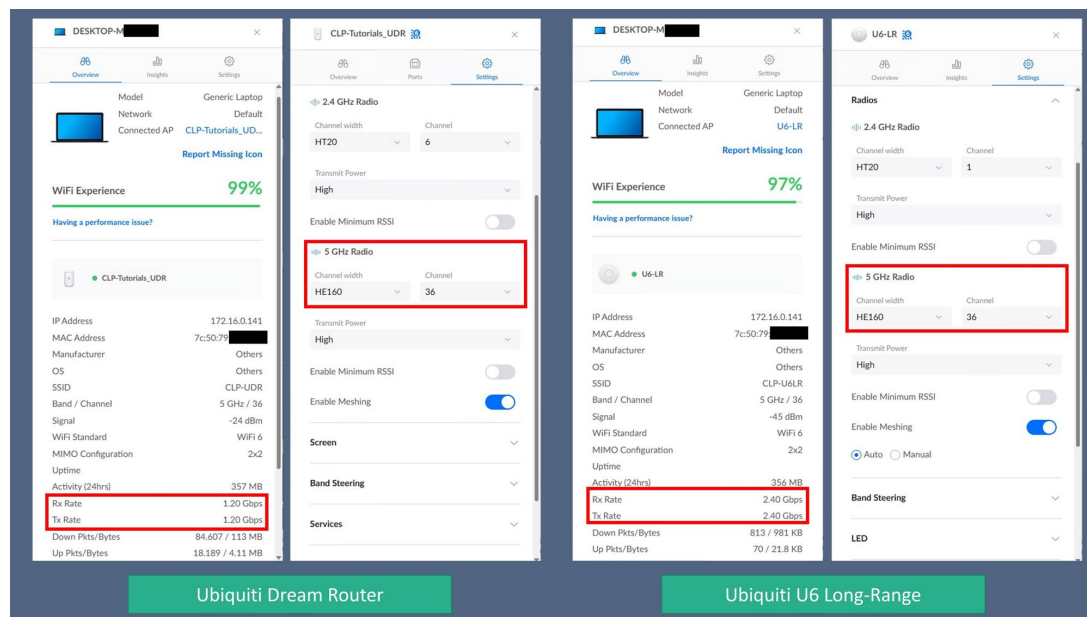1   💬 14   👁 377   💬 Comment   ★ Follow

Hi Everyone,

i have a little Problem with a Ubiquiti Dream Router (UDR). It runs the UniFi OS firmware version 2.4.9 with controller version 7.1.65.

With the UDR i cannot use 160MHz channel bandwidth in combination with clients which definitely support 160MHz like the Intel AX210, Intel Killer AX1650 (AX210 based), Intel AX200 or a Smartphone with a Qualcomm FastConnect 6700 Wi-Fi chipset.

When i connect to a U6-LR instead of the UDR everything works like it should. Here is a Screenshot:

To make sure that there is no configuration issue, i have also tested it with auto-channel and after a factory reset with a new configuration.

My question is:

Is that behavior a known bug? And can i do something to get a 160MHz connection to the UDR?

with best regards

Chris

Responses (14)

gregorio
2 months ago

In spite of you being able to select it, UDR does not suppo[rt] so (through interpretation) in the datasheet.

⬆ 0

C clp-tutorials
2 months ago

In the specification list in the datasheet of the UDR stands the following:

"802.11ax (WiFi 6) - 7.3 Mbps to 2.4 Gbps (MCS0 - MCS11 NSS1/2/3/4, HE 20/40/80/160)"

Link: https://dl.ui.com/ds/udr_ds.pdf

So i think what you mentioned is not correct. The datasheet says clearly, that 160MHz@802.11ax@2x2:2 is supported.

⬆ 1

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gregorio
2 months ago

> @clp-tutorials wrote:
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> Link: https://dl.ui.com/ds/udr_ds.pdf
> So i think what you mentioned is not correct. The datasheet says clearly, that 160MHz@802.11ax@ 2x2:2 is supported.

I see what you are saying now. The screen shot on the left shows the 2x2 client MCS at 1200 instead of 2400. I mistakenly thought you were trying to connect them together. Not enough caffeine this morning

⬆ 0

C clp-tutorials
a month ago

Exactly. The UDR uses btw the same 5GHz wifi-chipset than the U6-LR. So it should be a firmware-issue or another unknown error.

⬆ 0

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gregorio
a month ago

> @clp-tutorials wrote:
> Exactly. The UDR uses btw the same 5GHz wifi-chipset than the U6-LR. So it should be a firmware-is sue or another unknown error.

@UI-Glenn is this a known issue?

⬆ 0

clp-tutorials
a month ago

⋮

It would be nice if somebody who also has an UDR could

⬆ 0

_Space
a month ago

⋮

@clp-tutorials I dont have a UDR, but from the release notes, 2.4.10 OS for it, brings the AP firmware up to 6.0.18

Sync integrated AP with 6.0.18 fixes and improvements

So, since you are on 2.4.9, the AP you are using is at an even older version of firmware. Possibly, the older firmware has an issue with 160mhz wide channels.

There are a few threads (I have not tried to seach for them) that talked about what version of firmware the AP is running.

⬆ 0

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clp-tutorials
a month ago

⋮

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> @clp-tutorials I dont have a UDR, but from the release notes, 2.4.10 OS for it, brings the AP firmware up to 6.0.18
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> There are a few threads (I have not tried to seach for them) that talked about what version of firmware the AP is running.

Thanks for the info. I will test that.

Link to the 2.4.10 Early Access Change Log:

https://community.ui.com/releases/UniFi-OS-Dream-Router-2-4-10/18000b3d-678a-419a-868a-9e3bf7750aa9

⬆ 0

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clp-tutorials
a month ago

⋮

With the Firmware 2.4.10 a new problem occurs. Now 160MHz channel bandwidth seems to work, but the clients connect just with one chain (1x1 MIMO). I have tested this with two different clients.

● CLP-Tutorials_UDR

IP Address   172.16.0.141

MAC Address   7c:50:79

Manufacturer   Others

When i reduce the channel bandwidth to 80mhz the clients connect with 2x2 MIMO Configuration.

1

gregorio
a month ago

> *@clp-tutorials wrote:*
> With the Firmware 2.4.10 a new problem occurs. Now 160MHz channel bandwidth seems to work, but the clients connect just with one chain (1x1 MIMO). I have tested this with two different clients. When i reduce the channel bandwidth to 80mhz the clients connect with 2x2 MIMO Configuration.

Does the client support 2x2 at 160MHz?

⬆ 1

C   **clp-tutorials**
     a month ago

Yes, of course. I have tested it with a Intel AX210 and a Motorola Edge 20. When these clients connect to the U6-LR everything works like it should: 2402Mbit/s (2x2:2, 160MHz, 802.11ax)

Just with the 5GHz AP of the UDR the problem occurs.

⬆ 1

—   **_Space**
     a month ago

@clp-tutorials Just wondering, what firmware is the LR on ? if you match it and goto 6.0.18, does it get the same results as the UDR? (try ruling out the firmware)

⬆ 0

C   **clp-tutorials**
     a month ago

> *@_Space wrote:*
> @clp-tutorials Just wondering, what firmware is the LR on ? if you match it and goto 6.0.18, does it get the same results as the UDR? (try ruling out the firmware)

The U6-LR uses the firmware 6.0.15. I will upgrade to 6.0.18 at the next upgrade time slot. But that will not change anything. The U6-LR runs like expected since i got the AP.

⬆ 0

Sort by   Newest   Oldest

P   **Pixelmonteur**
15 days ago   ⋮

Hello, I have encountered the same problem. Is there already a solution for this?

1

Page   1

Your Response

Write your response here ...

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