Dante bandwidth

Dante Flows

Dante uses a 'flow' to package audio data. Flows contain 4 channels of audio.

Device Model	Total number of supported flows	
	Input	Output
Ultimo	2	2
Broadway	16	16
Brooklyn	32	32

Ultimo devices only support 2 channels of audio per flow at 88.2 and 96kHz.

Glensound products with 4 channels or less use the Ultimo module, except the Beatrice B4 Mini which is the Broadway. All units of 8 channels or more use the Brooklyn module.

For Dante, **bandwidth used will always be defined by number of flows**. Even if only one audio channel is being transmitted, the bandwidth will be equal to one flow. If 4 audio channels are transmitted, the bandwidth will still be equal to one flow. However, if 5 different audio channels are transmitted then 2 flows will be used. A separate flow is also used if transmitting the same channels to different Dante devices.

Brooklyn device transmit flow bandwidth charts

48kHz 24bit	
Flows	Bandwidth (Mbps)
1	5
2	11
3	17
4	23
5	29
6	35
7	41
8	47
16	94
32	189

96kHz 24bit	
Flows	Bandwidth (Mbps)
1	11
2	23
3	35
4	47
5	59
6	71
7	83
8	94
16	189
32	379

192kHz 24bit	
Flows	Bandwidth (Mbps)
1	23
2	47
3	71
4	94
6	118
6	142
7	165
8	189
16	379
32	758

Flow count can be monitored in the Device view of Dante controller under the Receive and Transmit tabs.

Useful links:

http://dev.audinate.com/GA/dante-controller/userguide/webhelp/
https://www.audinate.com/resources/faqs
https://www.audinate.com/sites/default/files/PDF/adding-dante-to-your-network-audinate.pdf
https://www.audinate.com/sites/default/files/PDF/advanced-dante-networking-avnw-2015-audinate.pdf