

# ANT-177x – bitrate spike reduction setting – decoder HAS to be Neptune player

## Contents

ANT-177x – bitrate spike reduction setting – decoder HAS to be Neptune player ..... 1

Synopsis..... 1

Document info..... 1

1. Setup..... 2

    1.1. Jitter Buffer ..... 2

        1.1.1. Wireshark analysis..... 3

    1.2. Encoding -> Extended..... 4

## Synopsis

How to minimise data spikes using ANT-177X encoders and a Radio Link.

**NOTE Neptune player must be used as decoder**

For further help and advice please contact Antrica on:  
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## Document info

Version	date	author	Comments
1.0	3-Aug-17	Les	Initial release
1.1	3-May-22	David M	Extended vs default and re format

# 1. Setup

## 1.1. Jitter Buffer

See below the Jitter Buffer settings we've recommended to minimise spikes

Figure 1 : Jitter Buffer Setting

Mux Setup

**Mux: Mux1**

[Record](#)

[Frame Rate](#)

[Encoding](#)

**Encode Mode: CBR**

GOP:

QL Value:

Bitrate:

**IQ: Auto**

IQ Value:

[Extended](#)

[Jitter Buffer](#)

**Const Bitrate: On**

Delay(ms):

**Jitter(In percentage): 100**

### 1.1.1. Wireshark analysis

We've analysed both streams using Wireshark and we could clearly see that the bit rate signal peaks are restrained when using the Jitter Buffer, see below.

Figure 2 : Wireshark analysis - no buffer jitter

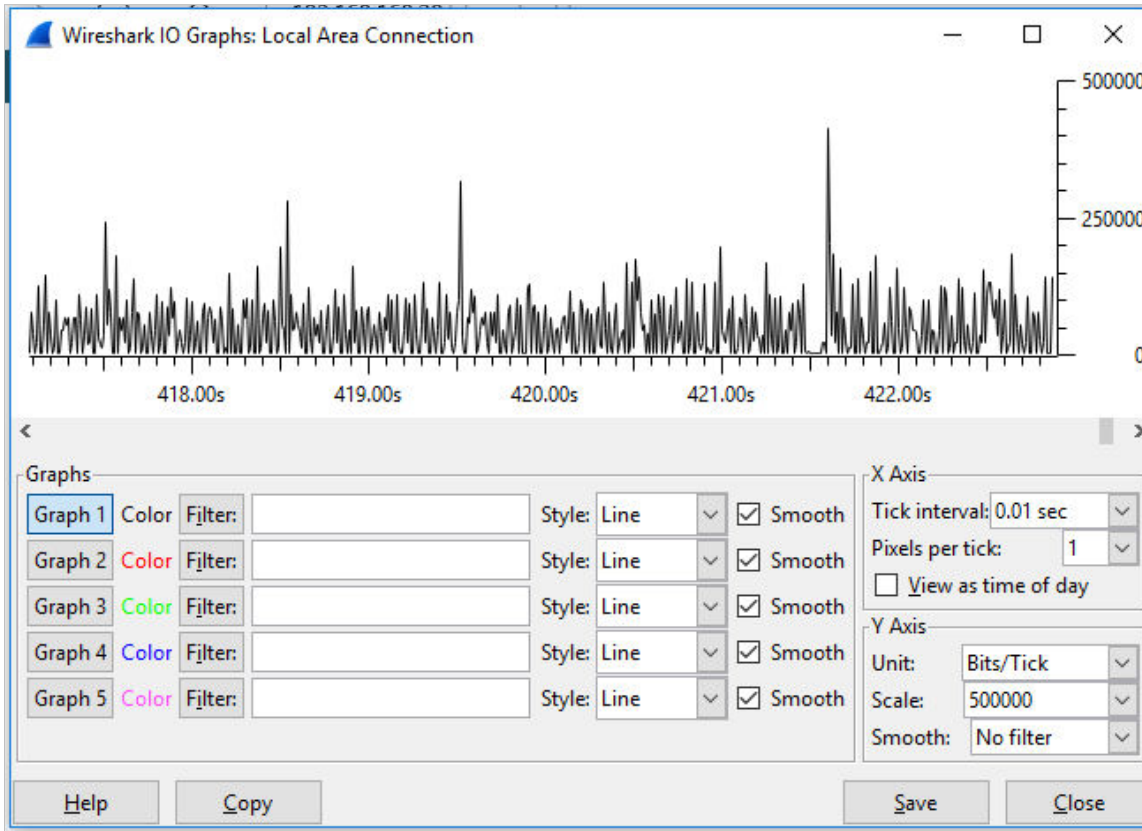
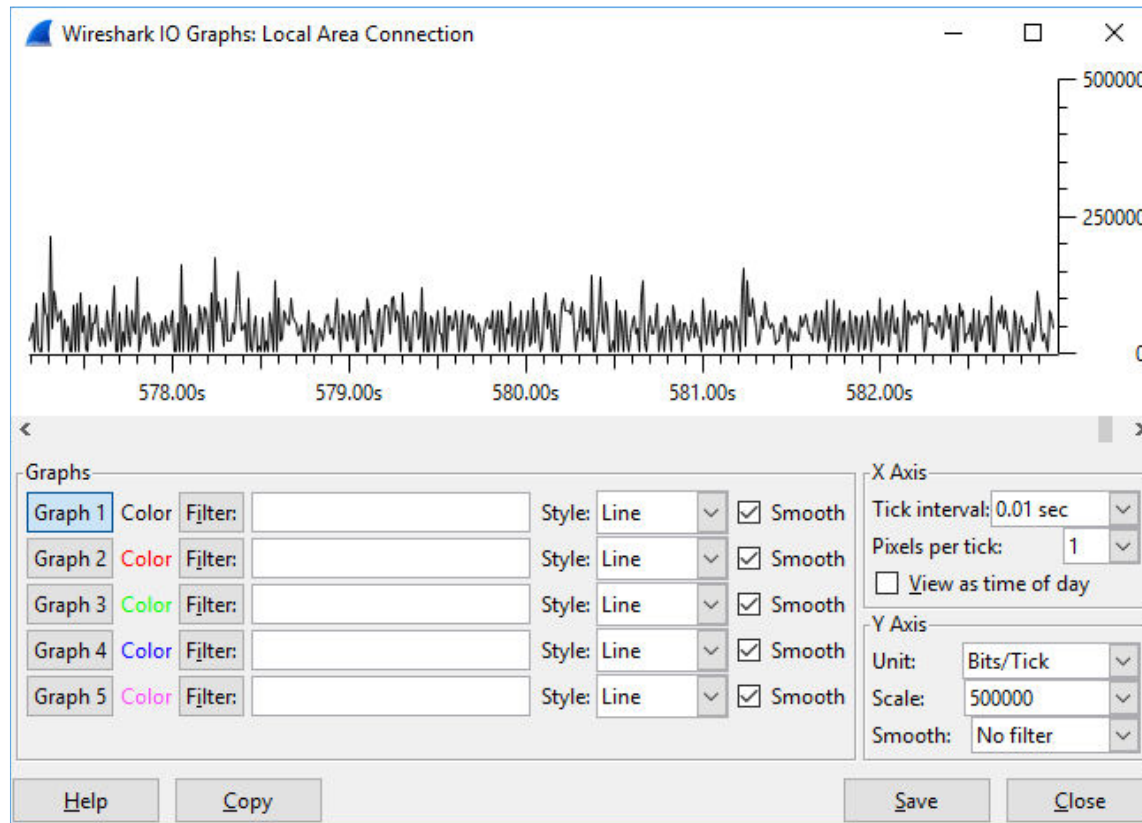


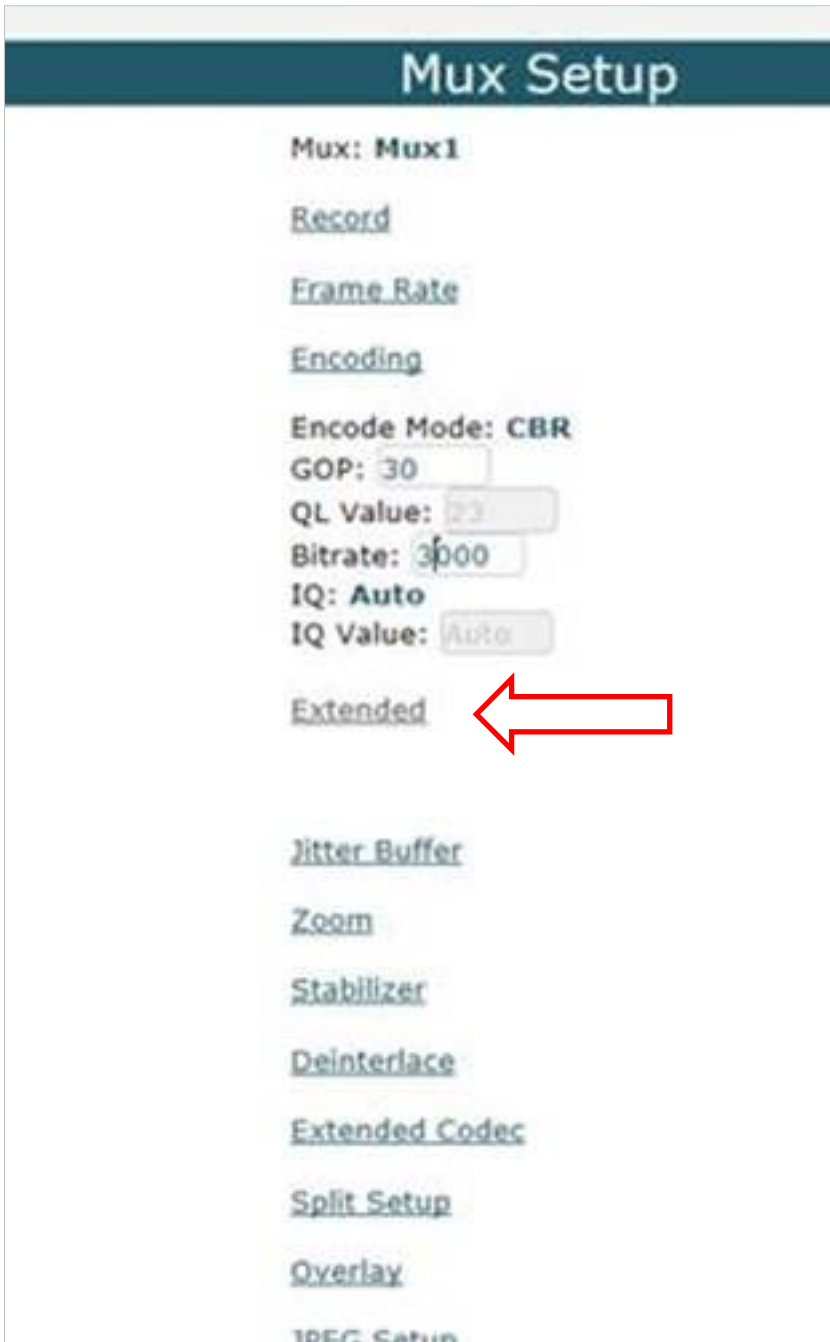
Figure 3 : Wireshark analysis - with buffer jitter



## 1.2. Encoding -> Extended

Also for improved video quality on the Mux settings under Encoding you'll find the Extended settings, see below.

Figure 4 : Encoding -> Extended option location



Please select Extended and change settings according to the page below (highlighted by the red boxes) and then select Save. Figure 5 shows the setting required, as a reference the default settings are shown in Figure 6

Figure 5 : setting Extended options

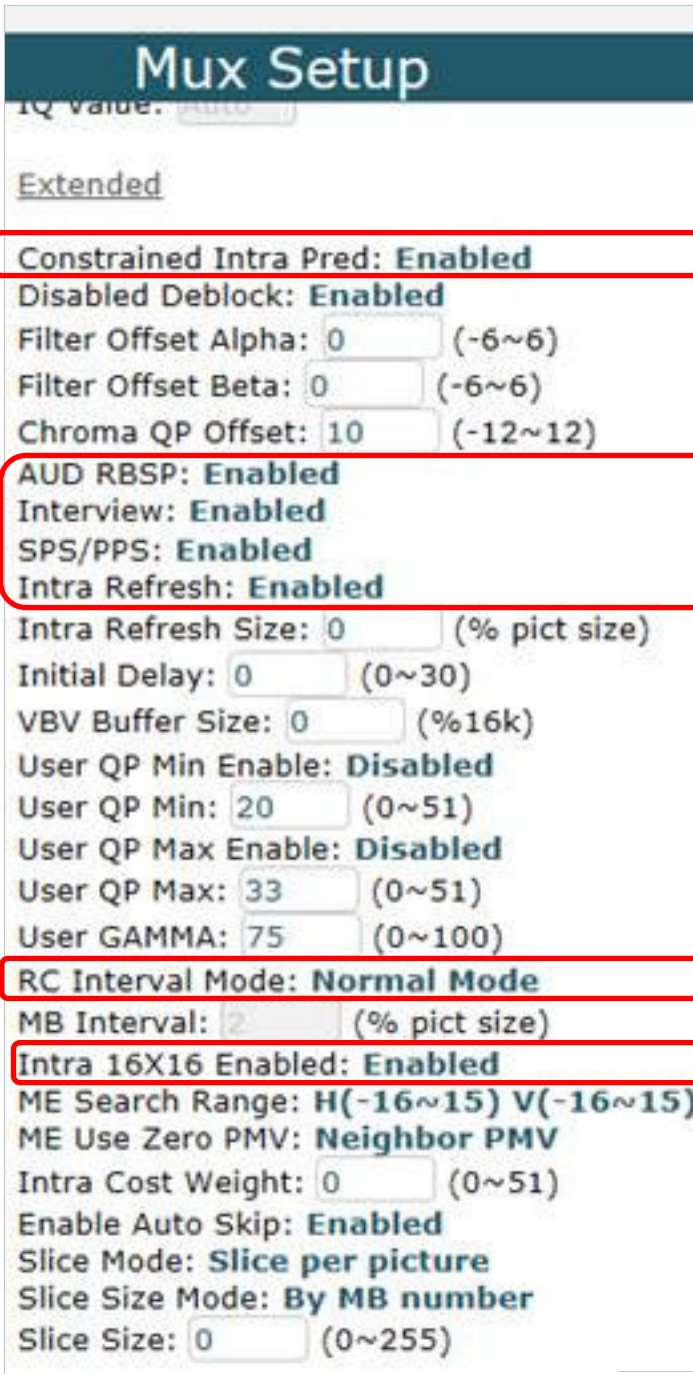


Figure 6 : Extended setting - default settings

