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**Document Version:**    Version 1.0

**Software Version:**     PIKA MonteCarlo 6.2 or greater

**Product(s):**             All PIKA PrimeNet MM boards

**Purpose:**                 How to enable Clear Channel for PIKA boards

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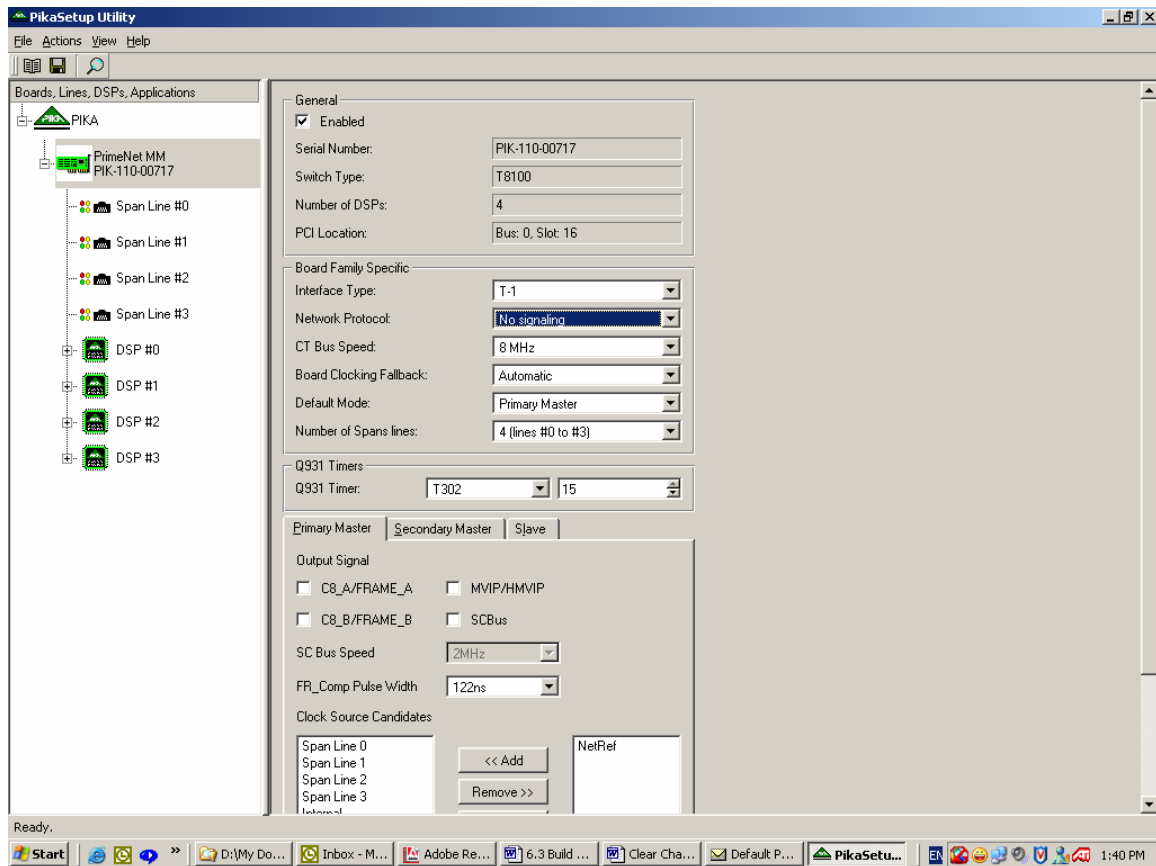
### What is Clear Channel?

Clear Channel is generally mentioned along with Common Channel Signaling (CCS) protocol. It means that spans (T1/E1) use out-of-band signaling (CCS signaling, as opposed to in-band signaling). As a result, the full bandwidth of the spans is available for transmitting voice or data.

For example, SS7 signaling is a set of robust and efficient protocols. A single SS7 signaling channel is able to take care of the call control process of up to thousands of bearer channels. These thousands of bearer channels are located within different physical spans. Most of these spans contain pure bearer channels (timeslots) for transmitting voice or data. These spans are called Clear Channel spans.

### How to enable Clear Channel for PIKA boards

All PIKA PrimeNet MM boards using PIKA MonteCarlo software version later than 6.2.0.145 support this Clear Channel feature. To enable Clear Channel, the "Network Protocol" setting in PikaSetup should be set as "No Signaling". This is a board level parameter.



To make use of Clear Channel in the application

After enabling the Clear Channel feature in PikaSetup, the application is able to access all 24 timeslots in each T1 span and 31 timeslots in each E1 span.

MonteCarlo SDK provides a set of APIs for supporting Clear Channel feature.

- PK\_SPAN\_GETDEVICEHANDLE
- PK\_SPAN\_DEVICE\_GETCONFIGURATION
- PK\_SPAN\_DEVICE\_GETDATALINKSTATE
- PK\_SPAN\_DEVICE\_GETEVENTHANDLER
- PK\_SPAN\_DEVICE\_GETPORTHANDLE
- PK\_SPAN\_DEVICE\_SEIZEPORT
- PK\_SPAN\_DEVICE\_SETCONFIGURATION
- PK\_SPAN\_DEVICE\_SETEVENTHANDLER
- PK\_SPAN\_PORT\_GETRESOURCEDESC
- PK\_SPAN\_PORT\_RELEASE
- PK\_SPAN\_PORT\_USAGECOUNTER

Please refer to the API manual if you would like a detailed description of each function.

<http://www.pikatechnologies.com/downloads/PDF/62/PIKA%20MonteCarlo%20API%20Reference.pdf>