APPENDIX B - IP COMPATIBILITY

The MultiRack is capable of encoding and decoding a choice of three different types of non-MultiRack streams: **Standard RTP**, **Luci Live** and **Zephyr Xstream**. The choice is exclusive— i.e., you must set the MultiRack specifically for the type of stream you wish to be compatible with and you will remain incompatible with the other two types unless you change it. This setting has no effect on normal MultiRack functions, which continue to operate as before.

1. **Luci Live** - This PDA/PC-based software allows real-time streaming over IP links. As of version 1.2, **Luci Live** includes AAC and HE-AAC, in addition to the default MP2 algorithm. MultiRack can communicate with **Luci Live** only in Luci's AAC modes. Note: The free demo available from Luci does not incorporate the AAC functions; you must have a licensed and registered copy to use AAC.

   To communicate with a **Luci Live** device:
   - **Initial Setup** - This will define all Standard RTP connections to be Luci Compatible.
   - **MultiRack** - On the **System Settings** tab, open the **Standard RTP Settings** option and choose **RTP Compatibility Mode**. On the pull-down box, choose **Luci Live**.
   - **Incoming Connections** - **Luci Live** sends either an AAC or HE-AAC stream to the MultiRack on UDP port 5004. These streams will be automatically decoded. By default, a return channel of AAC 56 kb/s mono is returned to the **Luci Live** product. The return channel may be altered to any Luci-compatible mode in the **Systems Setting** section.
   - **Outgoing Connections** - Build a profile using the **Profile Manager** on the MultiRack and select a **Channel Mode** of **Standard RTP**. Then choose a Luci-compatible encoder for the outgoing call. The Luci software will control what type of stream, if any, is returned to the MultiRack.

2. **Zephyr Xstream** - Xstream Firmware version 3.2.0 and higher support an "RTP Push" function that is compatible with MultiRack in some modes. MultiRack is not currently compatible with the Xstream's HTTP and SIP streaming functions.

   There are several limitations imposed by the Xstream when using the RTP Push function:
   - On the Xstream, only AAC and MP3 coding are available in this mode, and MultiRack is only compatible with the AAC mode.
   - The Xstream uses downsampling in modes below 96 kb/s, which is not supported by MultiRack.
   - In order for an Xstream to decode a MultiRack stream, the default decoder setting must be changed from <Auto> to <AAC> in the codec menu of the Xstream.

   To communicate with a **Zephyr Xstream**:
   - **Initial Setup** - This will define all Standard RTP connections to be Xstream Compatible.
   - **MultiRack** - On the **System Settings** tab, open the **Standard RTP Settings** option and choose **RTP Compatibility Mode**. On the pull-down box, select **Zephyr Xstream**.
   - **Incoming Connections** - **Zephyr Xstream** sends an AAC stream to the MultiRack on UDP port 9150. These streams will be automatically decoded. By default, a return channel of AAC 96 kb/s mono is returned to the Xstream. The return channel may be altered to any Xstream-compatible mode in the **Systems Setting** section.