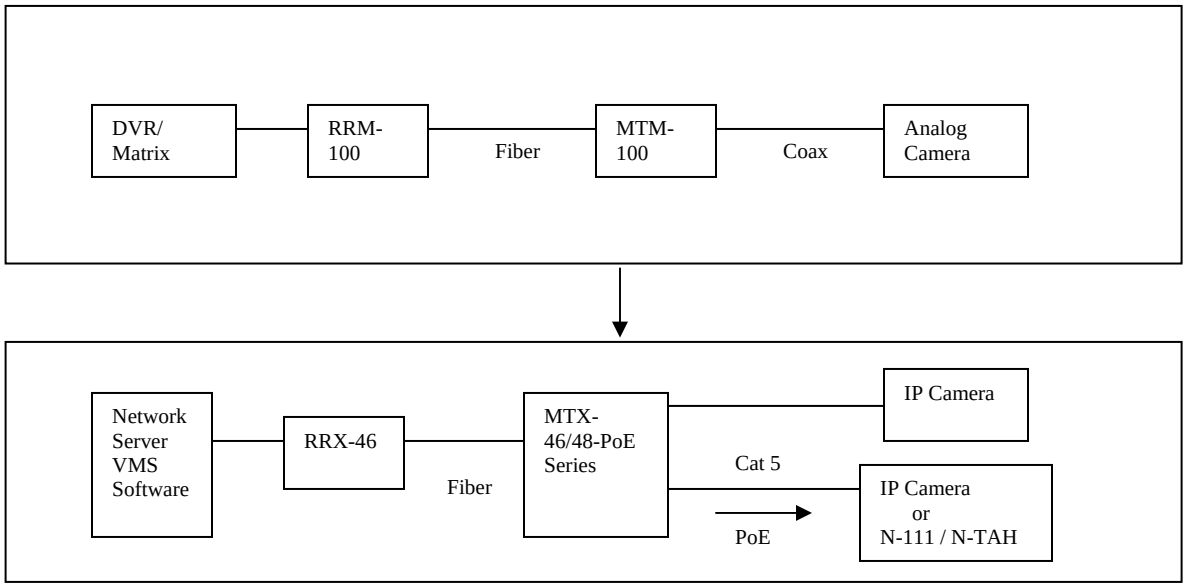
Analog To IP Upgrade Product Solutions
Single Channel and Four Channel Video

Application Note

Scope:
The block diagrams below illustrate several approaches to upgrade from an analog fiber optic link to IP maintaining as much of the infrastructure as possible while also providing the option to add additional cameras or other network devices. The examples used are for upgrading AFI Series M100C single channel analog video and the Series 440C four channel analog video installations but they are appropriate for many other AFI video / PTZ bi-directional products as well. Call AFI for more information.

Upgrade to IP – Single Channel Example



The Series 46/48 provide 2 UTP ports. One would be used to connect to the upgraded IP camera. The second UTP port provides the option to add an additional camera or an AFI Net I/O product such as the N-111 or N-TAH.

The N-111 is a network device which is PoE powered and provides a serial port and a contact I/O. The N-TAH is a network device which is PoE powered and provides environment monitoring of temperature, humidity, and air flow. In addition, the N-TAH has 2 contact I/Os available. The 2 contact inputs could interface to external smoke detectors, water detectors, or motion detectors.

Application Note

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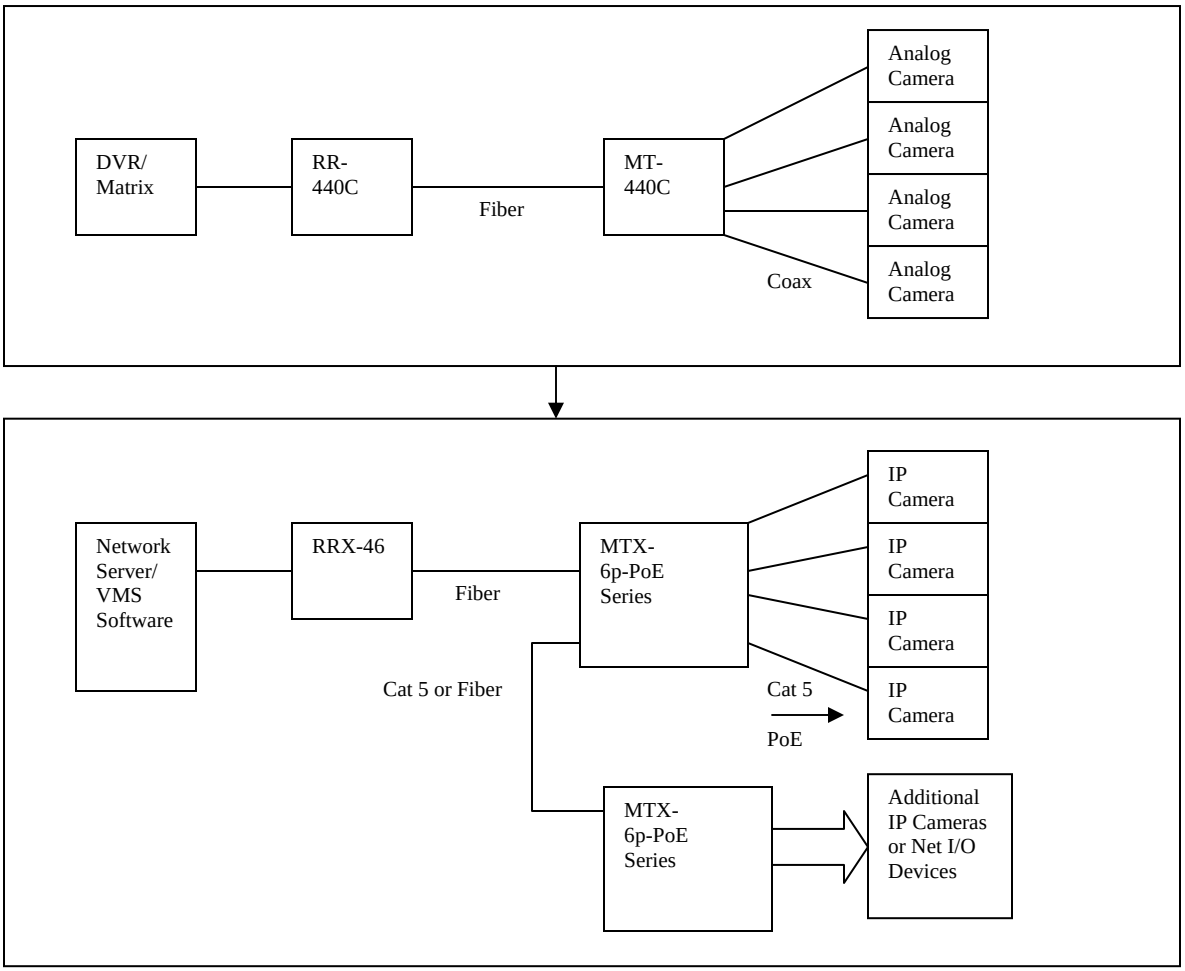
Upgrade to IP - 4 Channel Example



The AFI Series 6p-PoE mini-switch provides (4) 10/100Base-TX UTP ports and (2) SFP ports. The (4) UTP ports would connect to the IP cameras. One of the SFP ports connects to the fiber to transport the IP camera information to the Network Server. The second SFP port could be used to daisy chain to a second MTX-6p-PoE mini-switch which provides the option to add additional cameras or AFI Net I/O products such as the N-111 or N-TAH.

The N-111 is a network device which is PoE powered and provides a serial port and a contact I/O. The N-TAH is a network device which is PoE powered and provides environment monitoring of temperature, humidity, and air flow. In addition, the N-TAH has 2 contact I/Os available. The 2 contact inputs could interface to external smoke detectors, water detectors, or motion detectors.